

Digital HDTV receiver with Linux operating system

**AB IPBox 9900HD**  
**AB IPBox 9900HD plus**  
**AB IPBox 99HD**  
**AB IPBox 55HD**



User Manual

*[www.abipbox.com](http://www.abipbox.com)*

## **Introduction**

Thank you for purchasing our digital HDTV receiver. The receiver enables you to enjoy world of high definition television with excellent picture details and incredible surround sound. It also brings you an access to large amount of digital radio stations, Internet radios and other services. Thanks to AB Enigma2 HD operating system you can adjust your receiver to suit your personal needs and install new functions and modules.

The receiver also enables playback of different multimedia files from built-in HDD, other connected devices or via network.

We wish you many pleasant experiences while using your receiver.

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## Safety Precautions

Please read this manual thoroughly before the appliance is operated. Strictly follow all safety precautions!

Install you receiver in dry environment, avoid any contact with water and humidity.

Do not turn on the receiver after the contact with cold environment – condensated water may affect proper operation of the appliance. Wait several hours to dry up naturally. Do not put it near any heating sources.

The appliance should not be exposed to dripping or splashing and no objects filled with liquid, such as vases, glasses, flowerpots should be placed on the appliance. If the appliance has been exposed to rain or water, or if liquid has been spilled or objects have fallen into the appliance, unplug the appliance from the wall outlet and refer servicing to qualified service personnel.

Unplug the appliance from the wall outlet before cleaning. The appliance should be cleaned only with dry or slightly wet cloth.

The appliance should be situated away from heat sources such as radiators, heat registers, or other appliances that produces heat.

Slots and openings in the cabinet are provided for ventilation and ensure reliable operation of the appliance and to protect it from overheating. These openings should never be blocked or covered!

The appliance should be operated only from the type of power source indicated on the marking label (100-240V 50-60Hz).

Do not use the appliance when the power-supply cord or plug is damaged.

Connect all other accessories to the appliance before connecting it to a wall outlet.

Do not install and connect antenna during thunderstorm or high humidity.

Be sure the antenna and cable system is grounded as to provide some protection against voltage surges and built-up static charges.

Unplug the appliance from wall outlet and disconnect the antenna system if you are not going to use the appliance for longer period of time.

Do not uncover the cabinet and do not conduct any repairs of the appliance!

**Any unauthorized repair may result to lose of warranty!**

There are not any fuses or user repairable parts inside the appliance.

## Technical specification – comparison of AB IPBox HD models

AB IPBox	9900 Plus HD	9900 HD	99 HD	55HD
<b>1st. tuner</b>	DVB-S2 embedded	DVB-S2 embedded	DVB-S2 embedded	DVB-S2 embedded
<b>2nd.tuner</b>	DVB-S2 embedded	DVB-S2 P&P optional	DVB-S2 P&P optional	no
<b>2xCI</b>	yes yes		no	no
<b>CardReader</b>	2x 2x		1x	1x
<b>HDD</b>	e-SATA/SATA e-SATA	A/S ATA	SATA	USB
<b>HDD bracket</b>	yes yes		yes	no
<b>USB 2</b>	2x 2x		1x	1x
<b>RS 232</b>	yes yes		no	no
<b>Display</b>	VFD VF	D	VFD	4 Digit LED
<b>Scart</b>	2x 2x		1x	1x
<b>RCA/YPBpBr</b>	yes yes		no	no
<b>Modulator</b>	yes yes		no	no
<b>Power Switch</b>	yes yes		no	yes
<b>Flash</b>	32MB 32M	B	32MB	64MB
<b>Memory</b>	256MB 25	6MB	256MB	256MB
<b>SPDif</b>	yes yes		yes	yes
<b>Ethernet</b>	yes yes		yes	yes
<b>0/12V</b>	yes yes		no	no

### Technical parameters of AB IPBox HD receivers:

All AB IPBox 9900HD, 99HD and 55HD receivers are equipped with AB Enigma 2HD operating system.

The AB IPBox 9900HD Plus receiver is standardly equipped with two DVB-S tuners that enables simultaneous watching and recording of 2 channels from different transponders/satellites.

Technical parameters of the AB IPBox 9900HD Plus and AB IPBox 9900HD are the same. The only difference is that the AB IPBox 9900HD model is standardly equipped with just one DVB-S2 tuner and is equipped with connector for connecting another tuner: DVB-T terrestrial, DVB-C cable or DVB-S2 satellite. See table below for detailed technical specification.

The AB IPBox 9900 models are equipped with 2 CI (Common Interface) slots and Conax card readers.

All AB IPBox 99xxHD models are prepared for installation of internal 2,5“ SATA HDD up to 1,5 TB.

ABIPBOX 9900HD Plus		
CPU	Type	266MHz ST40-202 32bit RISC CPU
	Data/Instruction Cache	32KB/16KB
Satellite 8PSK Tuner (DVB-S2)	Input Connector	IEC169-24 Female(F-type) X 2
	Loop through Connector	IEC169-24 Female(F-type) X 2
	Input Signal Level	-65 to -25dBm
	Frequency Range	950MHz to 2150MHz
	LNB Control	Vertical 13V(400mA Max)
		Horizontal 18V(400mA Max)
	Waveform	QPSK, 8PSK(C/KU band compatible)
	22KHz Tone	Frequency 22±2KHz
		Amplitude 0.6±0.2V
	Symbol Rate	QPSK( up to 45MS/s), DVB-S2 :QPSK(up to 36MS/S), 8PSK(up to 30MS/s)
	DiSEqC Control	Version 1.0/1.1/1.2/USALS Compatible
MPEG Transport Stream & A/V Decoding	Input Stream	ISO/IEC 13818-2 Specification and H.264
	Profile & Level	MPEG-2 MP@ML, MP@HL, MPEG4 AP@HL/H.264 level 4.1
	Input TS Data Rate	138Mbit/S max.
	Aspect Ratio	4:3, 16:9 with pan/scan vector
	Video Resolution	720 x 576(PAL), 720 x 480(NTSC), 1080i, 720P, 480i, 480P
	Audio Decoding	MPEG-1 Audio Layer 1,2, Musicam
	Audio Mode	Stereo, Dual Channel, Joint Stereo, Mono
	Sample Rate	32, 44.1, and 48KHz
Memory	Flash Memory	32MB
	DDR SDRAM	256MB (128MB + 128MB)

Storage & Rear connector	HDD	e-SATA (1.5Gbps), 80/120/160/200/320GB and over (User Selectable)
	Digital interface for HDTV	HDMI 1.1 with HDCP
	SCART I/F	TV & VCR (2 Ports)
	CVBS & Audio R/L Out	RCA (3 Ports)
	Component Out (YPbPr)	RCA (3 Ports)
	RF-Modulator	In & Out
	0/12V Out	Chinch
	Digital Audio	S/PDIF via Optical
Data In/Out	USB Host Interface	USB A-Type Female (USB 2.0) X 2 ports
	RS232C	9 Pin D-Sub
Network	Ethernet	RJ-45 (10/100BT)
Conditional Access	Common Interface	2 PCMCIA Slots
	Smartcard Interface	2 Slots
Front Display	VFD	Vacuum Fluorescent Display as Alpha numeric style (14 dot matrix)
Power Supply	Input Voltage	AC100-240V~, 50/60Hz
	Type	SMPS
	Power Consumption	30W (Standby:3W)
	Protection	Separate Internal Fuse and Chassis
Physical Specification	Size (W x H x D)	340mm x 65mm x 250 mm
	Weight	3.5Kg
Environment	Operating Temperature	0 ~ 45C
	Storage Temperature	-40C ~ 65C

**AB IPBox 9900HD**

<b>CPU</b>	<b>Type</b>	266MHz ST40-202 32bit RISC CPU	
	<b>Data/Instruction Cache</b>	32KB/16KB	
<b>Satellite 8PSK Tuner (DVB-S2)</b>	<b>Input Connector</b>	IEC169-24 Female(F-type)	
	<b>Loop through Connector</b>	IEC169-24 Female(F-type)	
	<b>Input Signal Level</b>	-65 to -25dBm	
	<b>Frequency Range</b>	950MHz to 2150MHz	
	<b>LNB Control</b>	Vertical	13V(400mA Max)
		Horizontal	18V(400mA Max)
	<b>Waveform</b>	QPSK, 8PSK(C/KU band compatible)	
	<b>22KHz Tone</b>	Frequency	22±2KHz
		Amplitude	0.6±0.2V
	<b>Symbol Rate</b>	QPSK( up to 45MS/s), DVB-S2 :QPSK(up to 36MS/S), 8PSK(up to 30MS/s)	
	<b>DiSEqC Control</b>	Version 1.0/1.1/1.2/USALS Compatible	
<b>Terrestrial OFDM Tuner</b>	<b>Input Connector</b>	IEC169-2 female	
	<b>Loop through Connector</b>	IEC169-2 male	
	<b>Frequency Range</b>	50MHz to 870MHz	
	<b>Loop through Out Impedance</b>	75 ohms nominal	
	<b>Band Width</b>	7/8 MHz	
	<b>Carrier Mode</b>	2k & 8k hierachical/non-hierachical mode	
	<b>Constellation</b>	Auto(QPSK, 16/64 QAM)	
	<b>Mode Rate</b>	Auto(1/2, 2/3, 3/4, 5/6 and 7/8)	
	<b>Guard Interval</b>	Auto(1/4, 1/8, 1/16 and 1/32)	
<b>Cable QAM Tuner</b>	<b>Input Connector</b>	IEC169-2 female	
	<b>Loop through Connector</b>	IEC169-2 male	
	<b>Frequency Range</b>	47MHz to 862MHz	
	<b>Loop through Out Impedance</b>	75 ohms nominal	
	<b>IF Bandwidth</b>	8MHz	
	<b>QAM mode</b>	16, 32, 64,128,256 QAM	
	<b>Symbol rate</b>	0.87Mbaud ~ 7Mbaud Max.	



<b>MPEG Transport Stream &amp; A/V Decoding</b>	<b>Input Stream</b>	ISO/IEC 13818-2 Specification and H.264
	<b>Profile &amp; Level</b>	MPEG-2 MP@ML, MP@HL, MPEG4 AP@HL/H.264 level 4.1
	<b>Input TS Data Rate</b>	138Mbit/S max.
	<b>Aspect Ratio</b>	4:3, 16:9 with pan/scan vector
	<b>Video Resolution</b>	720 x 576(PAL), 720 x 480(NTSC), 1080i, 720P, 480i, 480P
	<b>Audio Decoding</b>	MPEG-1 Audio Layer 1,2, Musicam
	<b>Audio Mode</b>	Stereo, Dual Channel, Joint Stereo, Mono
	<b>Sample Rate</b>	32, 44.1, and 48KHz
<b>Memory</b>	<b>Flash Memory</b>	32MB
	<b>DDR SDRAM</b>	256MB (128MB + 128MB)
<b>Storage &amp; Rear connector</b>	<b>HDD</b>	e-SATA (1.5Gbps), 80/120/160/200/320GB and over (User Selectable)
	<b>Digital interface for HDTV</b>	HDMI 1.1 with HDCP
	<b>SCART I/F</b>	TV & VCR (2 Ports)
	<b>CVBS &amp; Audio R/L Out</b>	RCA (3 Ports)
	<b>Component Out (YPbPr)</b>	RCA (3 Ports)
	<b>RF-Modulator</b>	In & Out
	<b>0/12V Out</b>	Chinch
	<b>Digital Audio</b>	S/PDIF via Optical
<b>Data In/Out</b>	<b>USB Host Interface</b>	USB A-Type Female (USB 2.0) X 2 ports
	<b>RS232C</b>	9 Pin D-Sub
<b>Network</b>	<b>Ethernet</b>	RJ-45 (10/100BT)
<b>Conditional Access</b>	<b>Common Interface</b>	2 PCMCIA Slots
	<b>Smartcard Interface</b>	2 Slots
<b>Front Display</b>	<b>VFD</b>	Vacuum Fluorescent Display as Alpha numeric style (14 dot matrix)
<b>Power Supply</b>	<b>Input Voltage</b>	AC100-240V~, 50/60Hz
	<b>Type</b>	SMPS
	<b>Power Consumption</b>	30W (Standby:3W)
	<b>Protection</b>	Separate Internal Fuse and Chassis
<b>Physical Specification</b>	<b>Size (W x H x D)</b>	340mm x 65mm x 250 mm
	<b>Weight</b>	3.5Kg
<b>Environment</b>	<b>Operating Temperature</b>	0 ~ 45C
	<b>Storage Temperature</b>	-40C ~ 65C

# AB IPBox 99HD

CPU	Type	266MHz ST40-202 32bit RISC CPU	
	Data/Instruction Cache	32KB/16KB	
Satellite 8PSK Tuner (DVB-S2)	Input Connector	IEC169-24 Female(F-type)	
	Loop through Connector	IEC169-24 Female(F-type)	
	Input Signal Level	-65 to -25dBm	
	Frequency Range	950MHz to 2150MHz	
	LNB Control	Vertical	13V(400mA Max)
		Horizontal	18V(400mA Max)
	Waveform	QPSK, 8PSK(C/KU band compatible)	
	22KHz Tone	Frequency	22±2KHz
		Amplitude	0.6±0.2V
	Symbol Rate	QPSK( up to 45MS/s), DVB-S2 :QPSK(up to 36MS/S), 8PSK(up to 30MS/s)	
	DiSEqC Control	Version 1.0/1.1/1.2/USALS Compatible	
MPEG Transport Stream & A/V Decoding	Input Stream	ISO/IEC 13818-2 Specification and H.264	
	Profile & Level	MPEG-2 MP@ML, MP@HL, MPEG4 AP@HL/H.264 level 4.1	
	Input TS Data Rate	138Mbit/S max.	
	Aspect Ratio	4:3, 16:9 with pan/scan vector	
	Video Resolution	720 x 576(PAL), 720 x 480(NTSC), 1080i, 720P, 480i, 480P	
	Audio Decoding	MPEG-1 Audio Layer 1,2, Musicam	
	Audio Mode	Stereo, Dual Channel, Joint Stereo, Mono	
	Sample Rate	32, 44.1, and 48KHz	
Memory	Flash Memory	32MB	
	DDR SDRAM	256MB (128MB + 128MB)	
Storage & Rear connector	Digital interface for HDTV	HDMI 1.1 with HDCP	
	SCART I/F	TV (1 Ports)	
	Digital Audio	S/PDIF via Optical	

Data In/Out	USB Host Interface	USB A-Type Female (USB 2.0)
Network	Ethernet	RJ-45 (10/100BT)
Conditional Access	Smartcard Interface	1 Slots
Front Display	VFD	Vacuum Fluorescent Display as Alpha numeric style (14 dot matrix)
Power Supply	Input Voltage	AC100-240V~, 50/60Hz
	Type	SMPS
	Power Consumption	30W (Standby:3W)
	Protection	Separate Internal Fuse and Chassis
Physical Specification	Size (W x H x D)	340mm x 65mm x 250 mm
	Weight	3.5Kg
Environment	Operating Temperature	0 ~ 45C
	Storage Temperature	-40C ~ 65C

#### **AB IPBox 99HD, AB IPBox 55HD – basic features:**

AB IPBox 99HD and AB IPBox 55HD are equipped with one built-in DVB-S2 tuner, the 99HD model is moreover equipped with a bracket for internal 2.5" HDD SATA.

AB IPBox 99HD and AB IPBox 55HD models (in comparison with AB IPBox 9900HD model) are not equipped with:

- Common Interface,
- RF modulator,
- 0/12V output,
- YpBPr and composite A/V output,
- e-SATA connector for external HDD,
- AB IPBox 55HD is also not equipped with RS232 serial connector and does not support installation of HDD.

Both models are equipped with:

- just one Conax card reader,
- just one Scart connector,
- just one USB host connector (type 99 on front panel, type 55 on rear panel)

There is no difference in picture and sound processing between AB IPBox 99HD/55HD and AB IPBox 9900HD.

The AB IPBox 55HD receiver is additionally equipped with 64 MB Flash memory.

# ABIPBOX 55HD

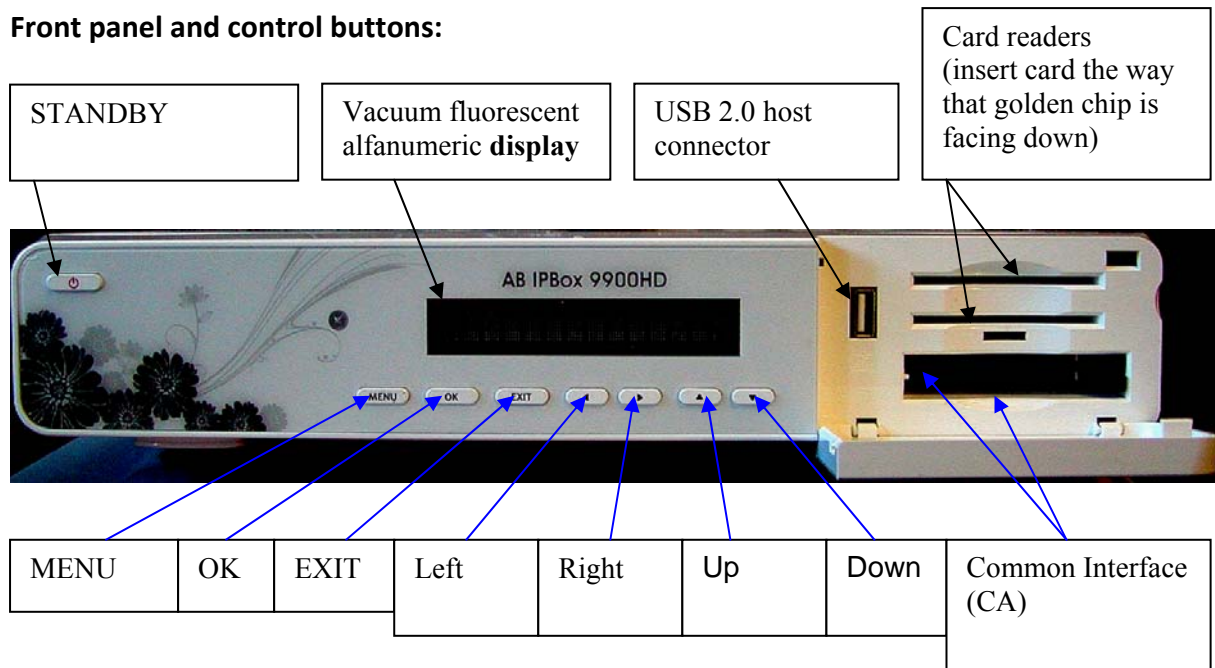
CPU	Type	266MHz ST40-202 32bit RISC CPU	
	Data/Instruction Cache	32KB/16KB	
Satellite 8PSK Tuner (DVB-S2)	Input Connector	IEC169-24 Female(F-type)	
	Loop through Connector	IEC169-24 Female(F-type)	
	Input Signal Level	-65 to -25dBm	
	Frequency Range	950MHz to 2150MHz	
	LNB Control	Vertical	13V(400mA Max)
		Horizontal	18V(400mA Max)
	Waveform	QPSK, 8PSK(C/KU band compatible)	
	22KHz Tone	Frequency	22±2KHz
		Amplitude	0.6±0.2V
	Symbol Rate	QPSK( up to 45MS/s), DVB-S2 :QPSK(up to 36MS/S), 8PSK(up to 30MS/s)	
	DiSEqC Control	Version 1.0/1.1/1.2/USALS Compatible	
MPEG Transport Stream & A/V Decoding	Input Stream	ISO/IEC 13818-2 Specification and H.264	
	Profile & Level	MPEG-2 MP@ML, MP@HL, MPEG4 AP@HL/H.264 level 4.1	
	Input TS Data Rate	138Mbit/S max.	
	Aspect Ratio	4:3, 16:9 with pan/scan vector	
	Video Resolution	720 x 576(PAL), 720 x 480(NTSC), 1080i, 720P, 480i, 480P	
	Audio Decoding	MPEG-1 Audio Layer 1,2, Musicam	
	Audio Mode	Stereo, Dual Channel, Joint Stereo, Mono	
	Sample Rate	32, 44.1, and 48KHz	
Memory	Flash Memory	64MB	
	DDR SDRAM	256MB (128MB + 128MB)	
Storage & Rear connector	Digital interface for HDTV	HDMI 1.1 with HDCP	
	SCART I/F	TV (1 Ports)	
	Digital Audio	S/PDIF via Optical	
Data In/Out	USB Host Interface	USB -Type Female (USB 2.0)	
Network	Ethernet	RJ-45 (10/100BT)	
Conditional Access	Smartcard Interface	1 Slots	

<b>Front Display</b>	<b>LCD</b>	<b>Alpha numeric style</b>
<b>Power Supply</b>	<b>Input Voltage</b>	<b>AC100-240V~, 50/60Hz</b>
	<b>Type</b>	<b>SMPS</b>
	<b>Power Consumption</b>	<b>30W (Standby:3W)</b>
	<b>Protection</b>	<b>Separate Internal Fuse and Chassis</b>
<b>Physical Specification</b>	<b>Size (W x H x D)</b>	<b>340mm x 65mm x 250 mm</b>
	<b>Weight</b>	<b>3.4Kg</b>
<b>Environment</b>	<b>Operating Temperature</b>	<b>0 ~ 45C</b>
	<b>Storage Temperature</b>	<b>-40C ~ 65C</b>

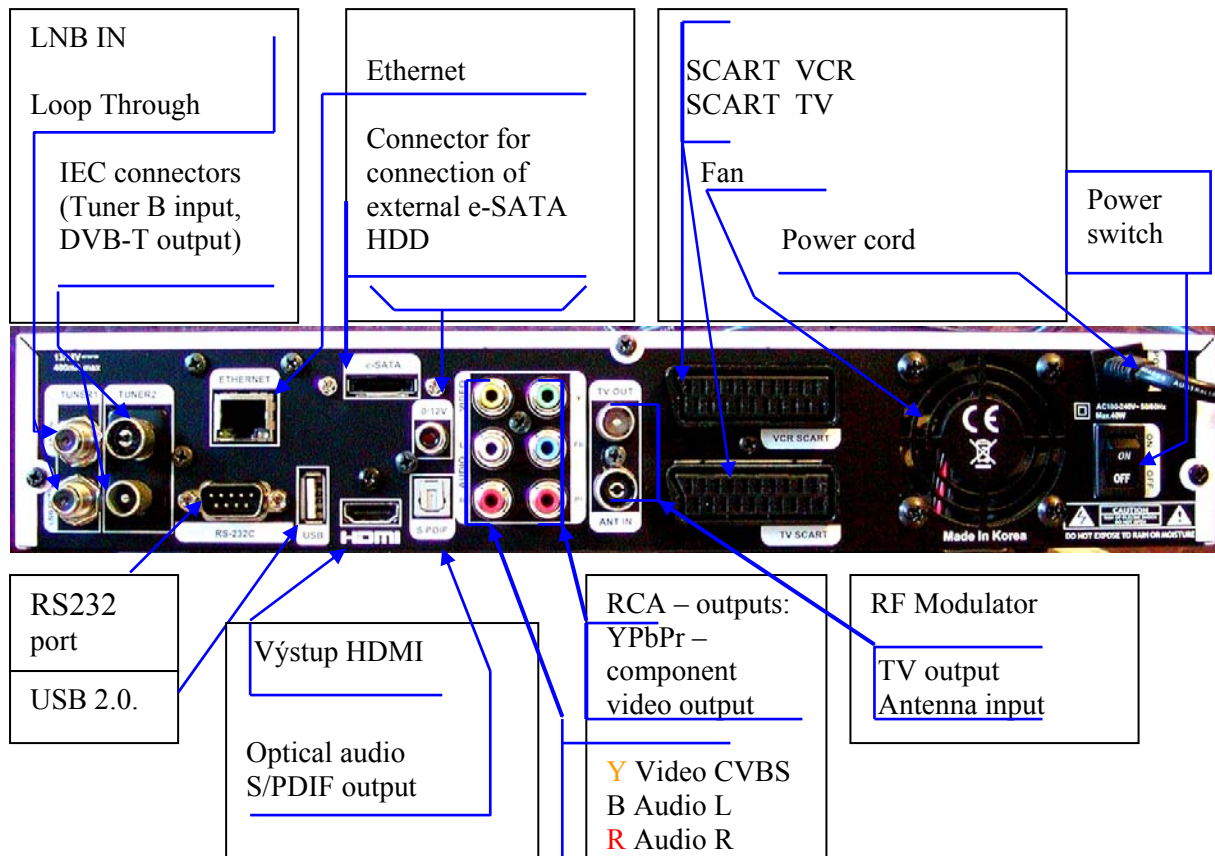
## Physical description:

### AB IPBox 9900HD

#### Front panel and control buttons:



#### Rear panel:



## AB IPBox 99HD

### Front panel and control buttons:



This model has almost the same front panel like AB IPBox 9900HD receiver. The difference is behind the doors on the right side of front panel – the AB IPBox 99HD is equipped with just one card reader and USB port.

### Rear panel



Rear panel consists of (from left side to the right):

- Input and Loop output of DVB-S2 tuner
- RS232 port
- Ethernet port
- HDMI output
- S/PDIF output
- SCART TV output
- Fan
- Power cord and Power switch

## AB IPBox 55HD

### Front panel and control buttons:



This model has almost the same front panel like AB IPBox 99HD receiver. The difference is in using 4 digits LED display and absence of USB port behind the door.

### Rear panel



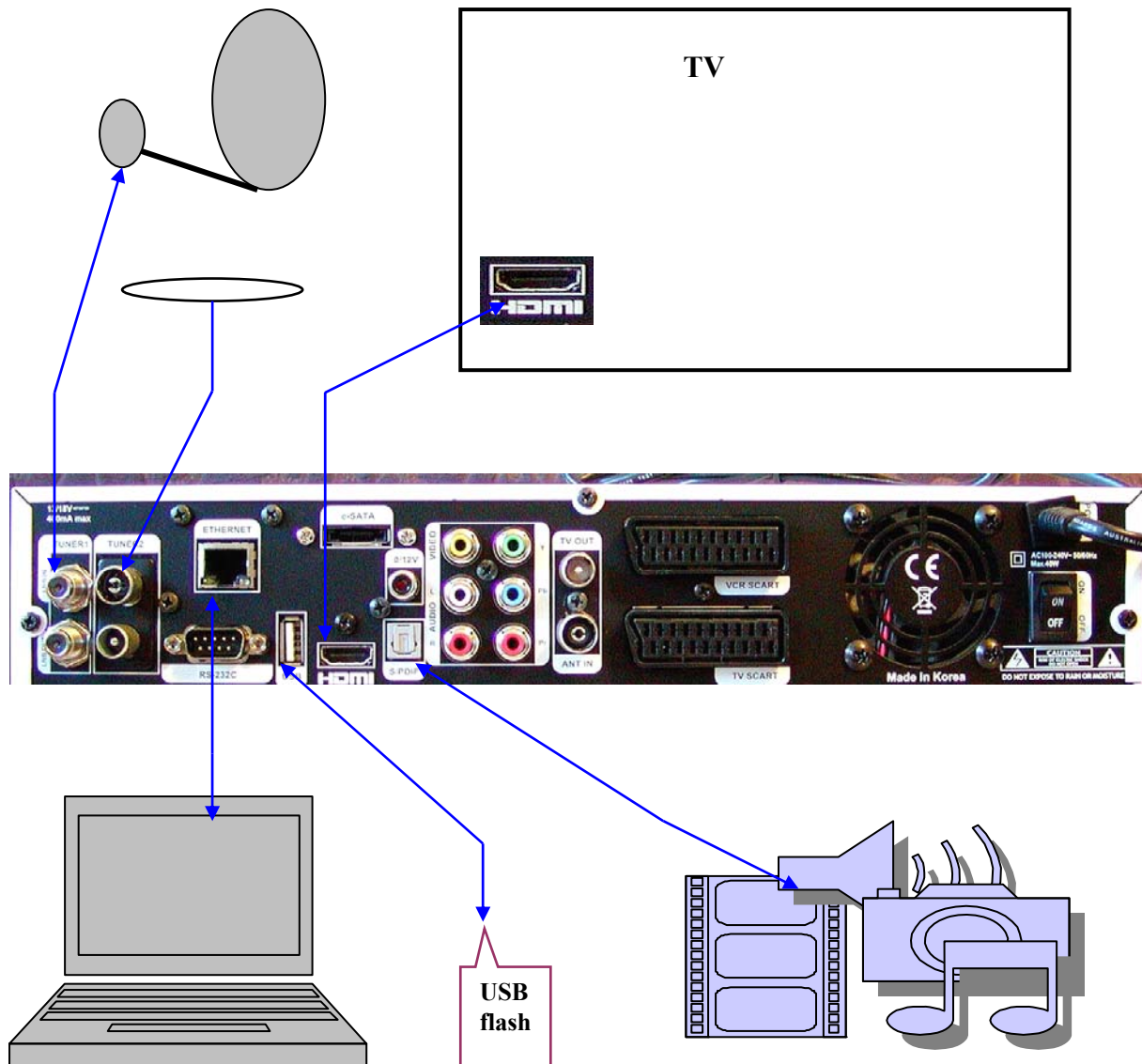
Rear panel consists of (from left side to the right):

- Input and Loop output of DVB-S2 tuner
- Ethernet port
- USB 2.0 port
- S/PDIF output
- HDMI output
- SCART TV output
- Power cord and Power switch



## Examples of possible connection of AB IPBox HD receiver:

### Example 1:

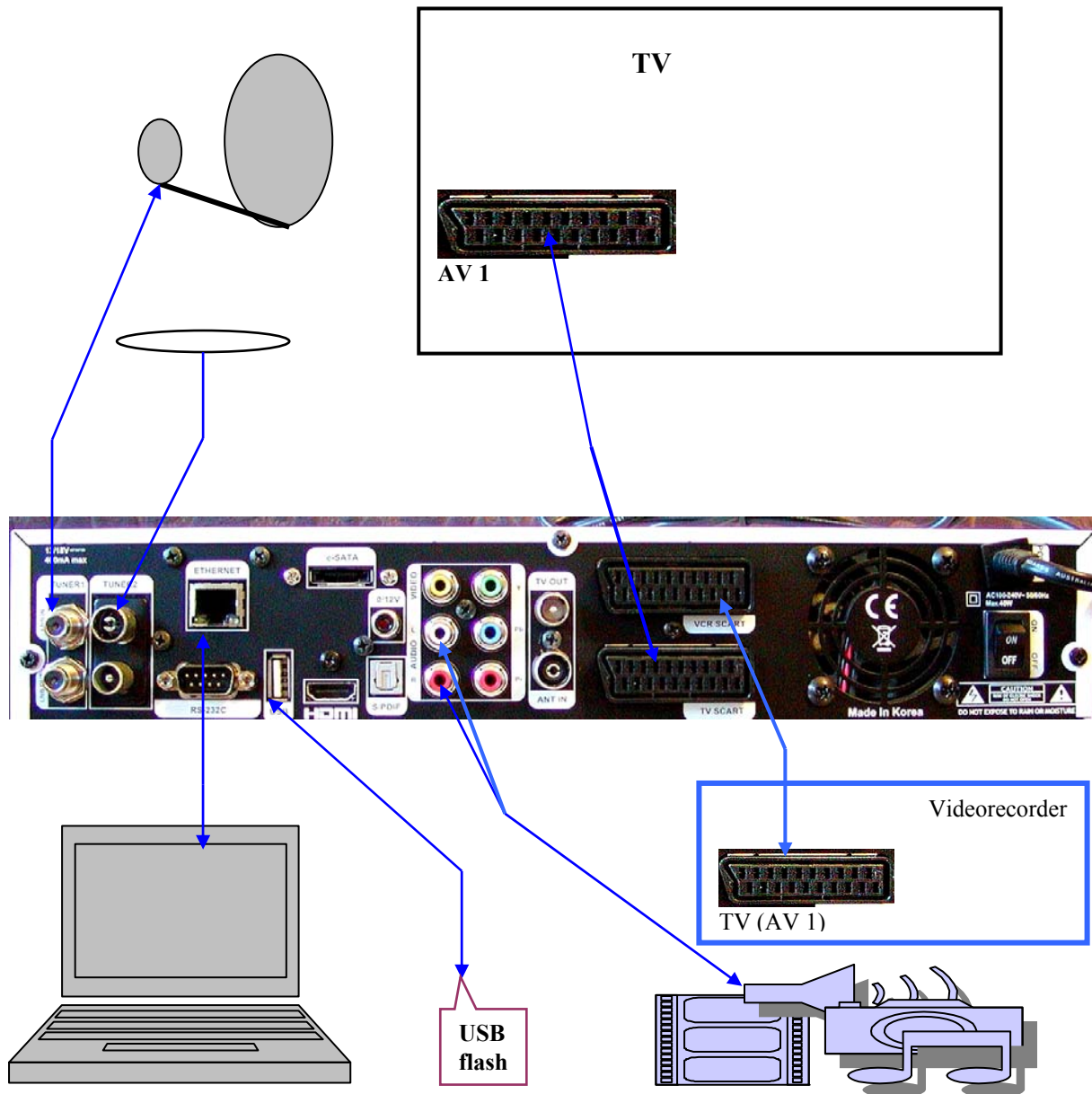


### Basic connection for High Definition display:

- Connect your satellite dish to input LNB IN of DVB-S2 Tuner (1).
- If the receiver is equipped with second Tuner, connect output from corresponding antenna dish to LNB IN (2) input (terrestrial antenna if it is DVB-T tuner or satellite antenna if it is DVB-S2 tuner).
- Connect your TV to the receiver via HDMI cable (some older type of HD ready TVs may not contain HDMI connector, in such a case use YPbPr connector).
- Connect your home cinema (A/V receiver) via digital optical S/PDIF output.
- Connect Ethernet output to your home network – if possible to the router.
- You can connect memory USB device with multimedia content to USB port.

## Example 2:

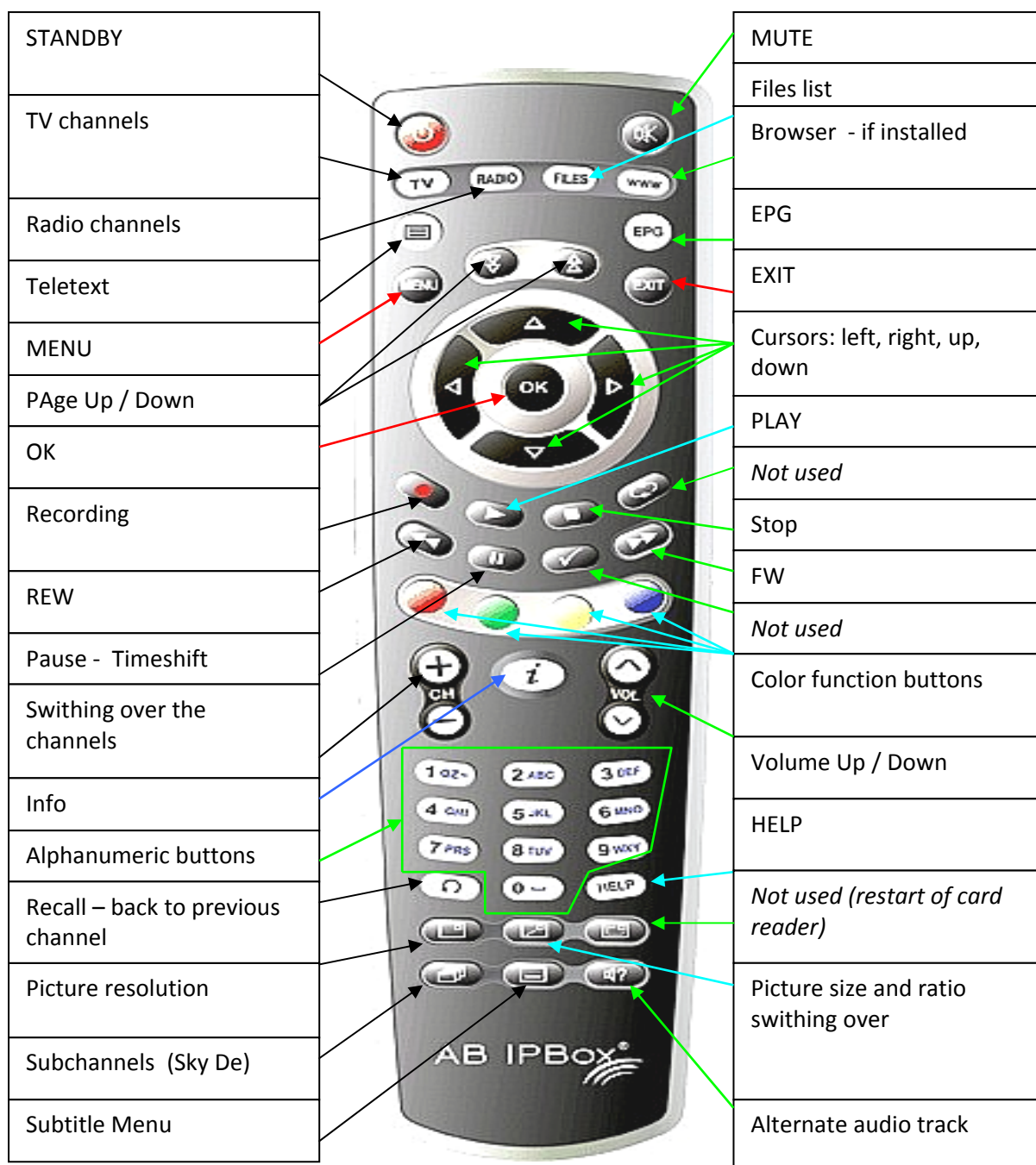
Basic connection for older type of TVs without HDMI connector – displays only in SD (Standard Definition) quality!



- Connect your satellite dish to input LNB IN of DVB-S2 Tuner (1).
- If the receiver is equipped with second Tuner, connect output from corresponding antenna dish to LNB IN (2) input (terrestrial antenna if it is DVB-T tuner or satellite antenna if it is DVB-S2 tuner).
- Connect your TV to the receiver via SCART cable (or 3x cinch).
- Connect your home cinema (A/V receiver) via digital optical S/PDIF output or Cinch outputs AUDIO L/R (only stereo audio).
- Connect Ethernet output to your home network – if possible to the router.
- You can connect memory USB device with multimedia content to USB port.
- You can use SCART AV output for connection of e.g. DVD recorder.

## Remote controller description

Note: The remote controller is not compatible with older type of AB IPBox receivers (AB IPBox 91HD, 910HD, 9000HD).



Note:

Picture resolution button is to quick switch over the picture resolutions.

If you set HDMI 1080i – picture is simultaneously transmitted onto component output in 1080i resolution. Press the button again to select SD PAL; output is transmitted on SCART and HDMI in 576i resolution.

Press the button once more to select 720p, Scart output is disconnected; picture is transmitted on component and HDMI outputs in 720p resolution.

Press the button for the third time to set 1080i again.

## **Operation:**

### **AB IPBox 9900HD PVR with AB Enigma2 HD firmware**

AB Enigma2 HD firmware was developed to enable simple and comfortable control of all functions of your receiver.

### **Powering Up the receiver**

a) Before connecting the power cord, connect to the receiver your other components and antenna (see examples in previous chapter). Finally connect the power cord to a suitable wall outlet.

b) Turn on your TV and select HDMI input in its menu (or different corresponding input according to your real physical connection).

c) Press the POWER switch on the rear panel to turn on the power. Time indicator is displayed.

Press the STANDBY button on the front panel or RC.

Starting the receiver and booting the system may last about 2 minutes; initial logo is displayed during this process. Wait till the end of starting.

### **Initial Setting**

If you do not see any picture on your TV, wait and check the message on the display. The receiver automatically switches over all outputs. Press the OK button when you see corresponding output on the display.

Outputs are continuously switched over in following order: Component – SCART – HDMI.

Select SCART (SD-PAL 50Hz) if you use SCART – SCART connection.

Select 1080i if you use Component connection.

Select 1080i if you use HDMI connection.

The refresh frequency menu appears after selection of HDMI. Set 50 or 60Hz according to your TV. TV sets commonly used in Europe use 50 Hz – confirm the selection by pressing the OK button.

If you accidentally set incorrect resolution and there is none or incorrect picture on your screen you can repeat the setting up:

- Turn off the power of your IPBox by pressing the switch on the rear panel.
- Turn on the receiver and watch the display.
- Press and hold for a short while the MENU button on the front panel when IPBOX 9900 message appears on the display.
- Available resolutions are displayed (SD-PAL, 720p, 1080i-50Hz, 1080i-60Hz...)
- Use Right – Left arrow buttons to select corresponding resolution and press OK. New booting with new settings starts.
- Wait until Installation wizard (guide) appears.

## Screen test – “yes”, “no”

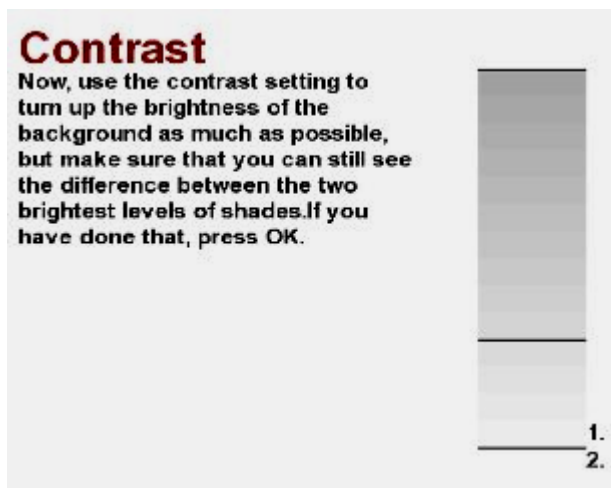
After setting up the video resolution you will be asked if you want to set up the picture parameters. Select “no” to skip the menu or “yes” to adjust level of Brightness:



Follow the instructions displayed on the screen. You can also return to this menu anytime later.

Press OK to confirm your setting – menu for adjusting of Contrast appears.

Adjust the level of Contrast and press OK.



## Language selection



Select desired language and press OK.

Basic setting installation menu (preinstalled channel list) appears on the screen. If none setting is available, skip the menu otherwise choose desired one and press OK.

Note:

You can download Setting from the Internet or install it from your PC.

## **Configuration Mode**

You can set up your antenna (outside dish) in this menu.

There is „not configured“ setting preset in tuner configuration menu.  
Set desired configuration of tuner (tuners).

„Simple“:

Setting for using two LNB converters (or so called monoblock) connected DiSEqC switch ½ .

Basic setting:

Input 1 = A : Astra 19,2E.

Input 2 = B : Hotbird 13E.

Use cursor buttons to change satellites for A or B positions if your dish is aimed at different satellites.

We recommend not changing the other settings. These are preset for the most common type of LNB - Universal.

You can change configuration of tuners later on in the menu of the receiver.

If your receiver is equipped with two tuners, second tuner is in the menu marked as tuner B.  
Second tuner can be also installed into your receiver additionally – type according to your requests:

DVB - S2 satellite  
DVB – T terrestrial  
DVB – C cable

The main advantages of using two tuners are wider channel list and possibility of simultaneous watching/recording of program from different satellites (services).

### **Example of setting of DVB – T tuner:**

Configuration mode	„enabled“
Terrestrial provider	„21-69k“
5V active antenna	“on” (if you use active antenna otherwise set “off”).

Press OK to confirm.

The question message appears on the screen:  
„Do you want to install default sat list? “

Select „yes“ to choose one of following four preset satellites:

Astra2 – 28.2E, Astra1 – 19.2E, Astra 3 – 23.5E, Hot Bird - 13E

Select “yes” for satellite that should be installed.



## Parental control “yes” – “no”

Select “yes” to enter to the menu for setting up the parental control.

Menu for inserting PIN code appears – insert preset code (0000).

In the following window you can change PIN according to your choice: insert new PIN into first line and write down the same code into second line to confirm.

Press Green function button to save new PIN code.

You can block selected channels in the list by using PIN code.

Press OK to continue the wizard.

## Network configuration

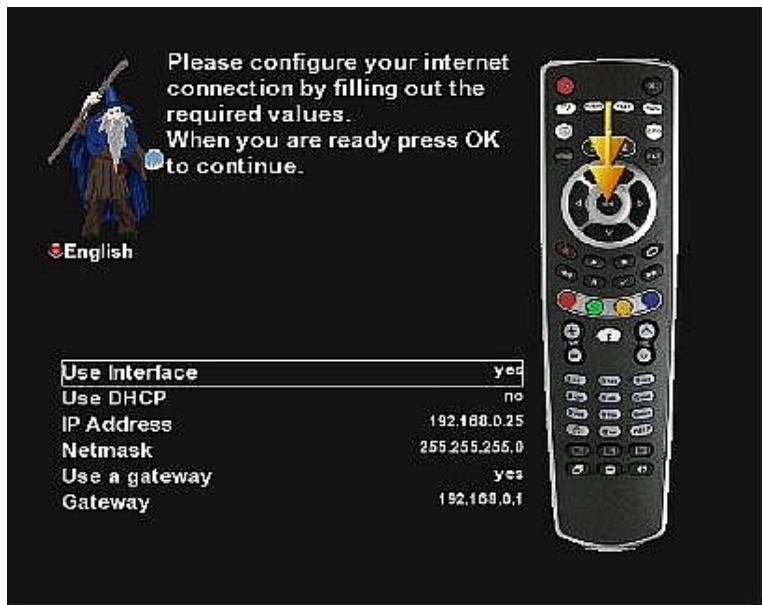


Use interface – set up „yes“

Use DHCP – set up „yes“ if your receiver is connected a router that supports Auto DHCP function. In such a case the network will be automatically set according to data from the router.



For manual configuration of the network please set the item “Use DHCP” - „no“



Set up appropriate values for parameters IP Address, Netmask, Use a Gateway and Gateway. Netmask value must be the same as it is in your computer; IP Address must differ from IP Address of your PC in last three digits. Example: IP address of your PC is 192.168.0.24, IP address of your receiver is 192.168.0.25.

You can find out IP address of you PC by `ipconfig /all` command.

(In your PC: Programs – Accessories – Command Line – write down: **ipconfig /all** and press **enter**. Network configuration of your PC should be displayed).

Inserted IP Address must be unique – no other device connected to your network can use the same IP address.

Press OK to finish the setup.

Window asking the question if you want to activate the network will be displayed. Select “yes” and press OK.

Two information windows about activation of the network will be displayed.

Last window shows whether the activation is successful.

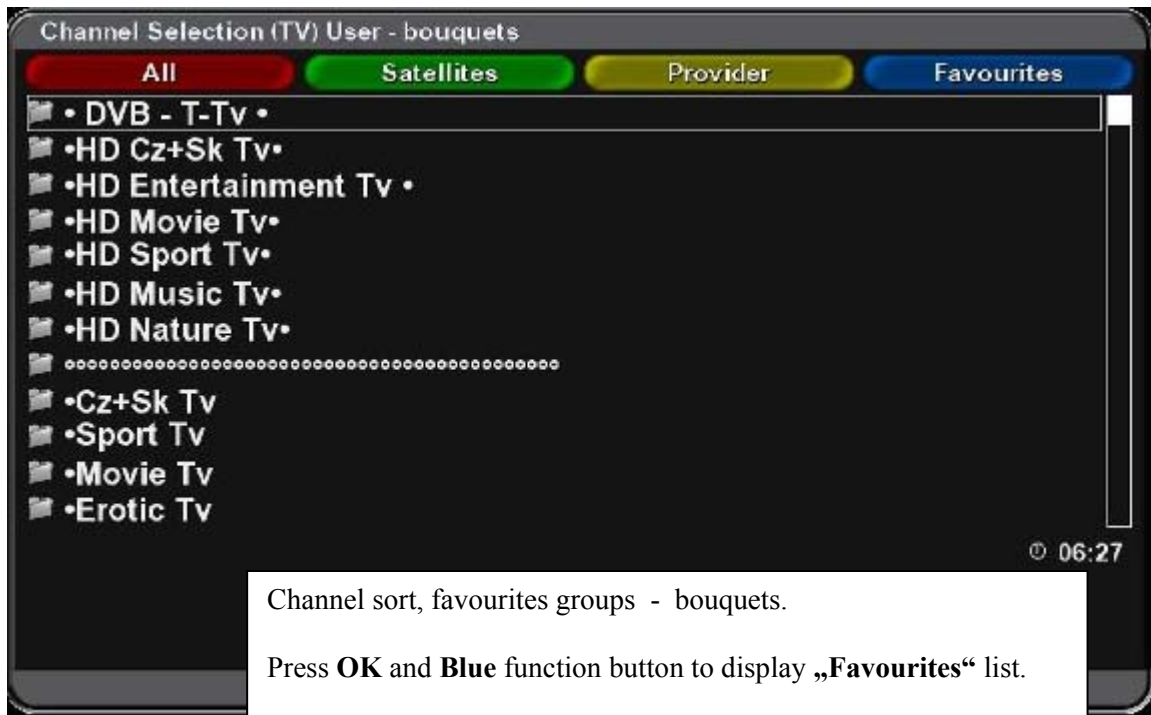
You can also configure your network later on through the menu.

Press OK to finish installation wizard.

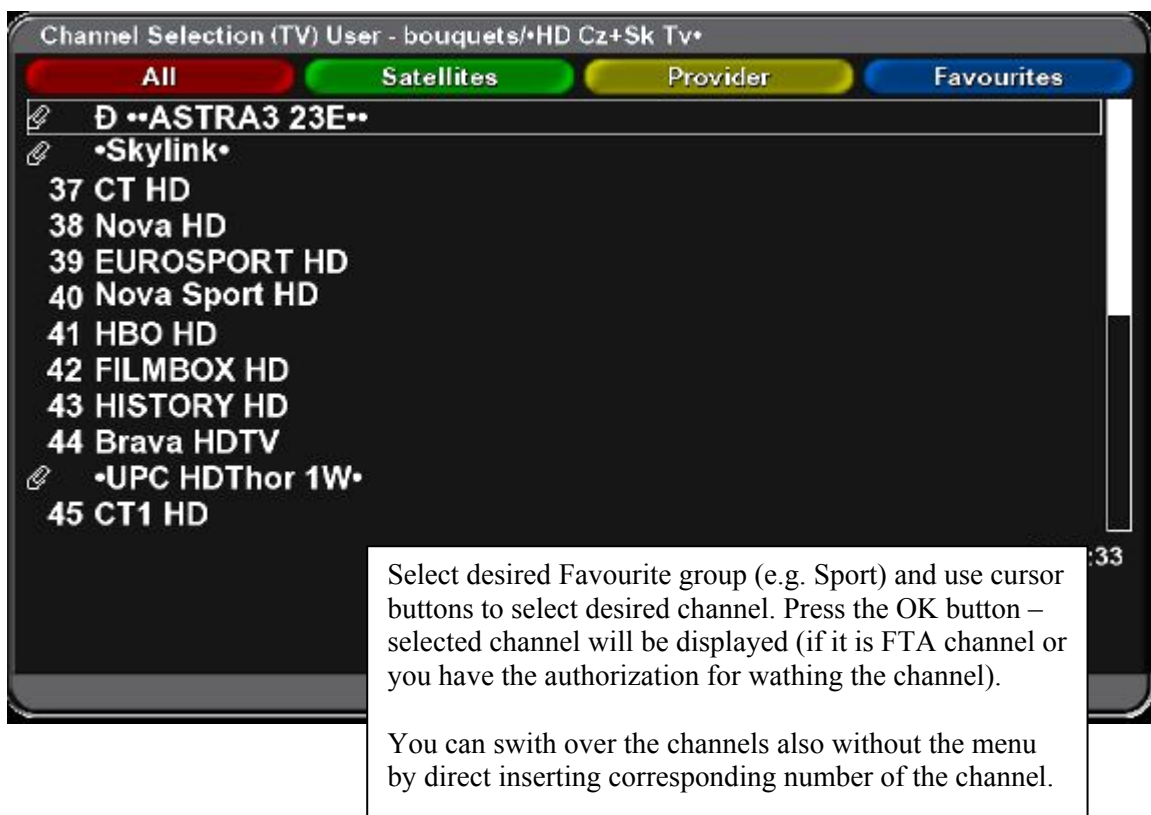
List of channels appears on the screen. If no setting has been installed the list is empty.



## Channel list



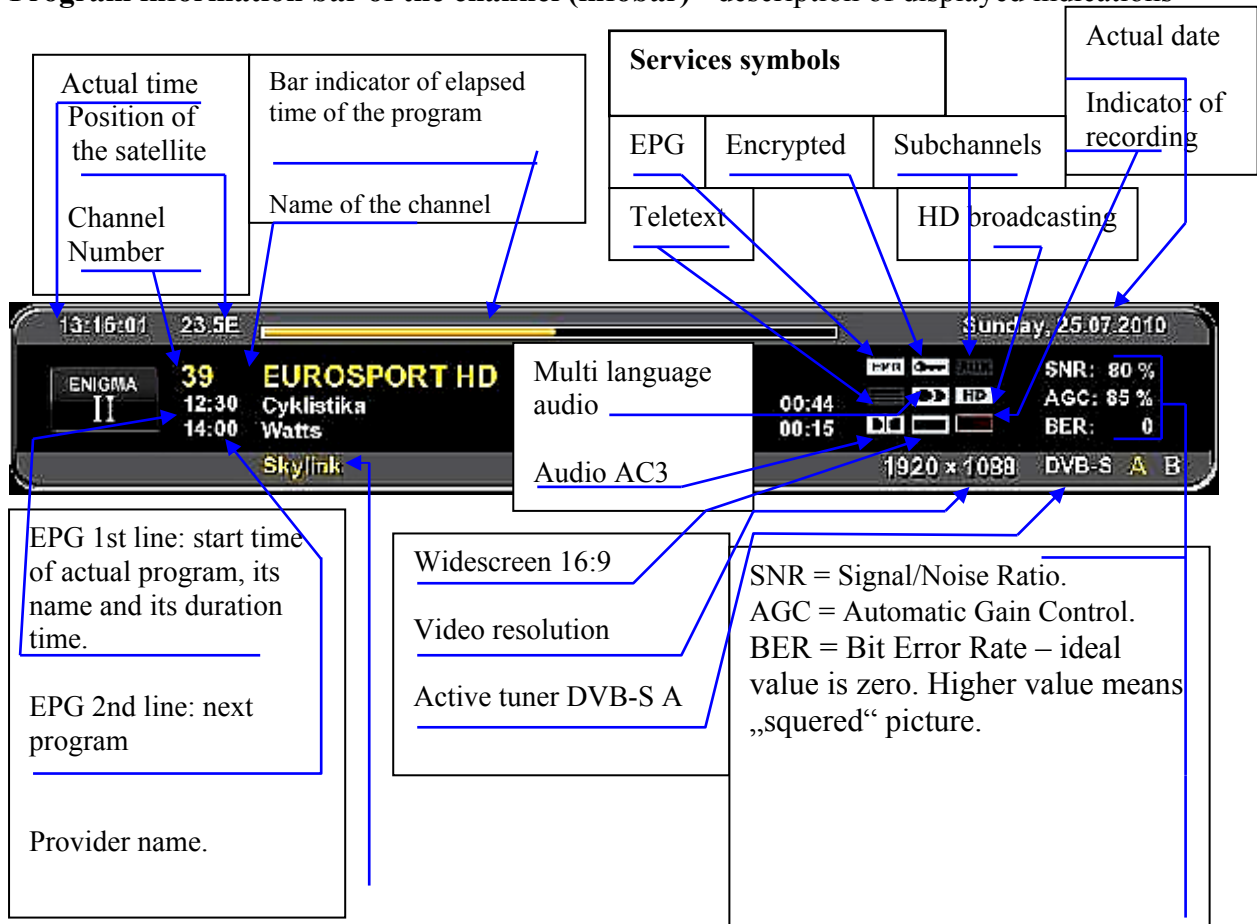
## Favorites:



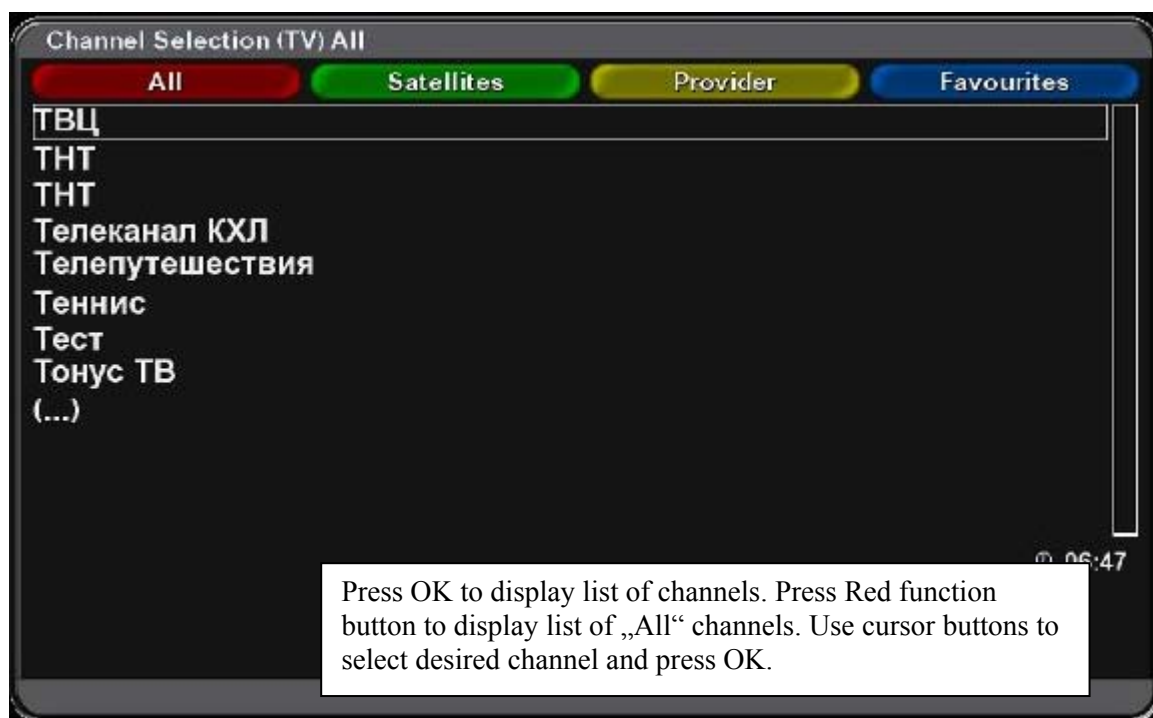
## Selection of a channel from favorites



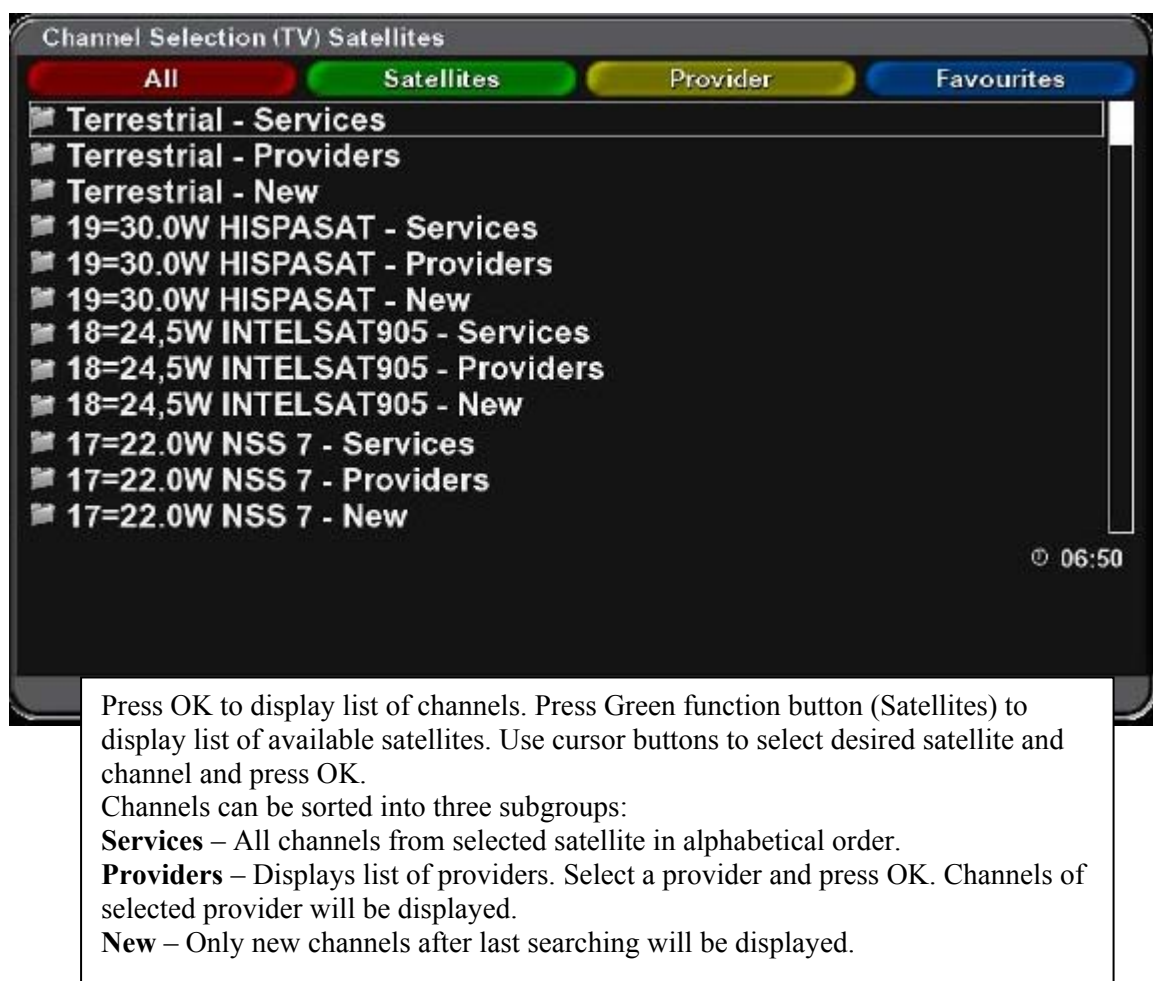
## Program information bar of the channel (infobar) - description of displayed indications



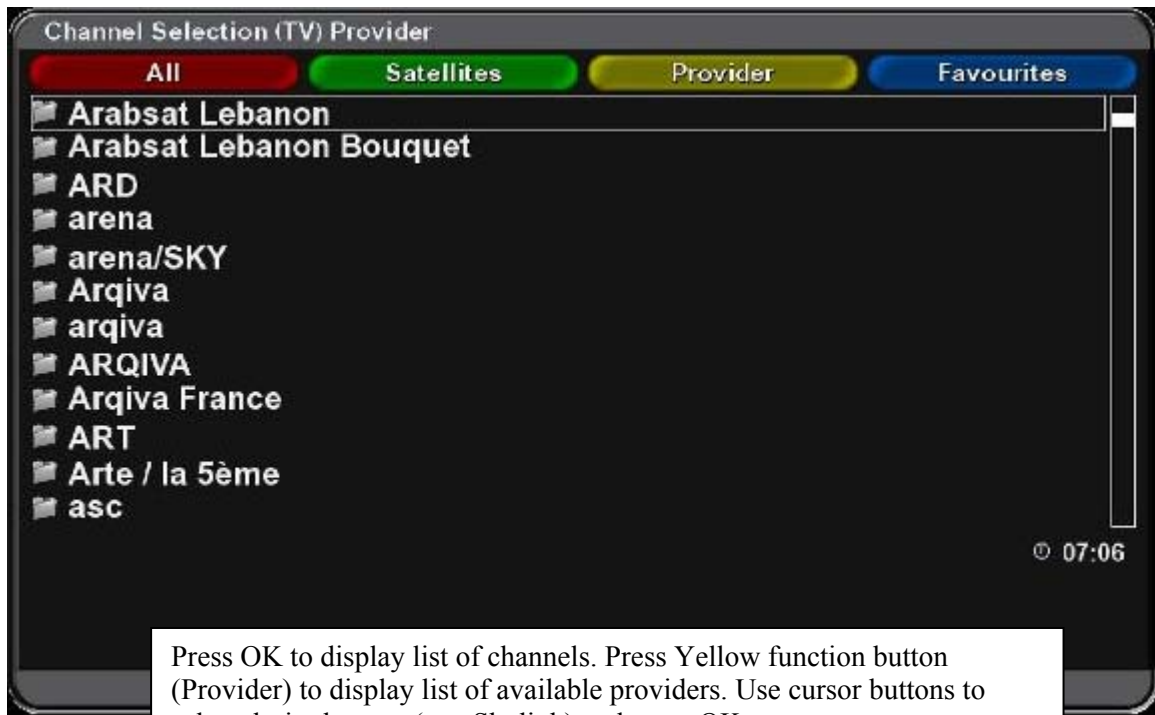
## Selecting a channel from ALL



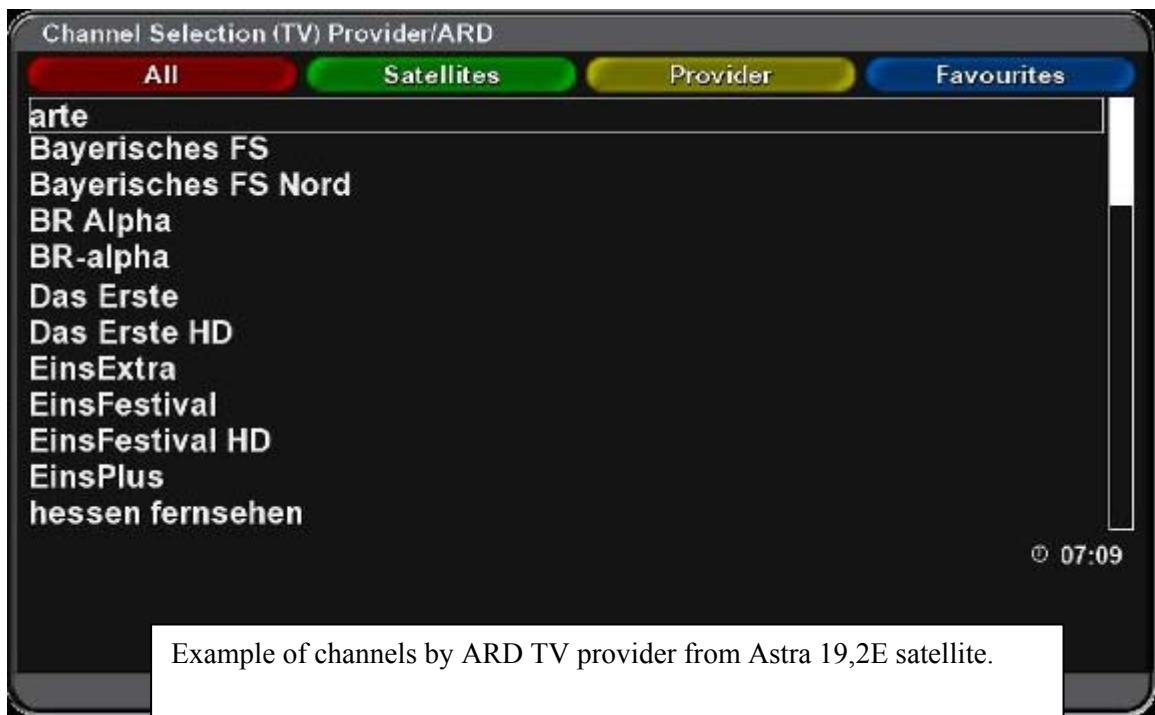
## Selecting a channel from Satellites list



## Selecting the channel from Provider list



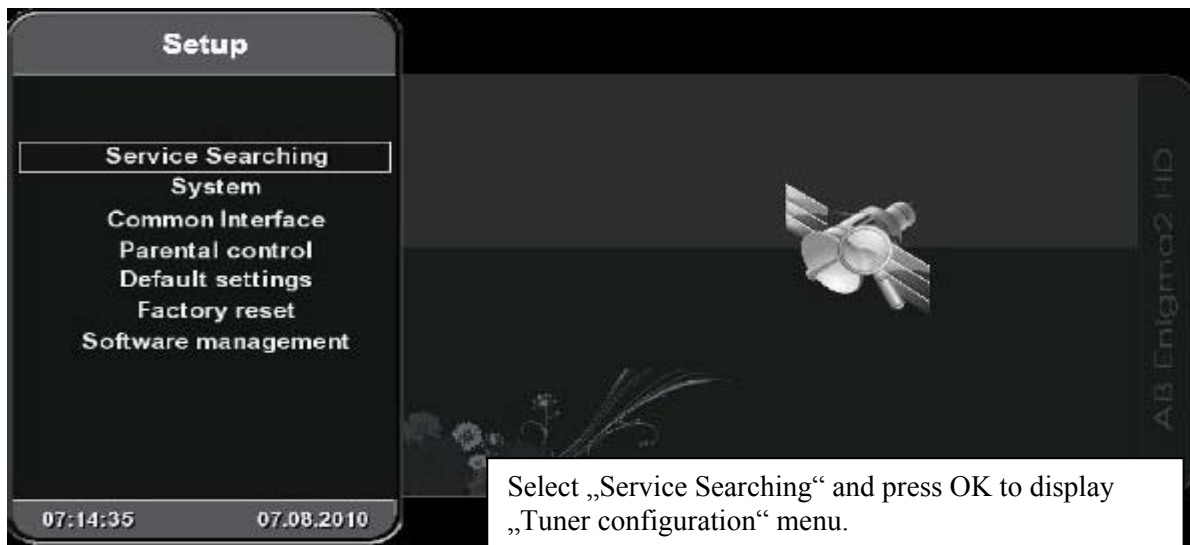
Press OK to display list of channels. Press Yellow function button (Provider) to display list of available providers. Use cursor buttons to select desired group (e.g. Skylink) and press OK. Names of providers and groups of channels are created automatically during searching according to NIT parameters from satellite and can not be changed.



Example of channels by ARD TV provider from Astra 19,2E satellite.

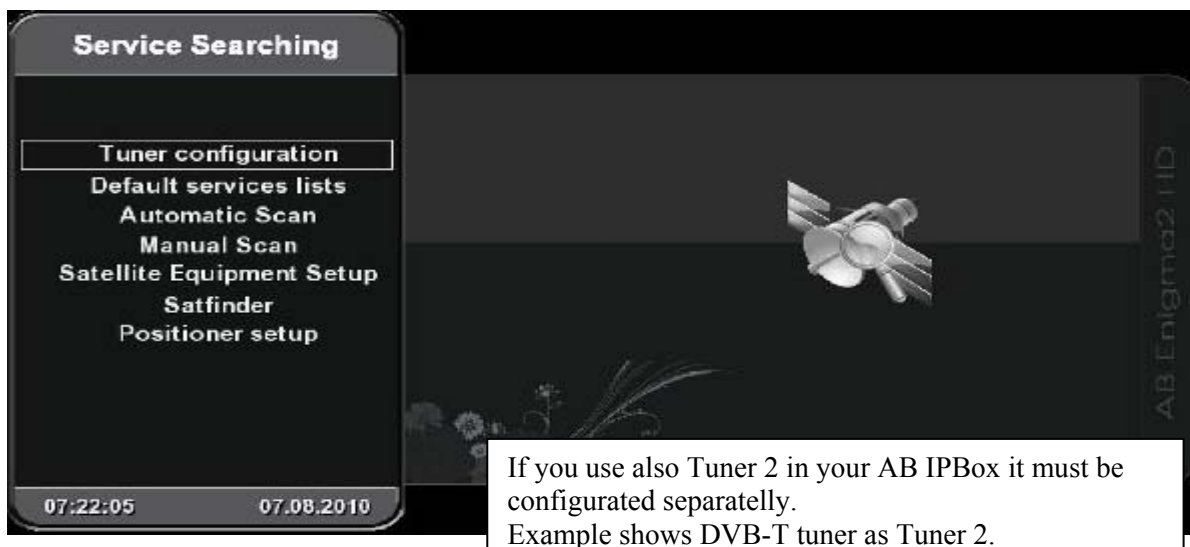
## Searching

(Menu – Setup – Service Searching)

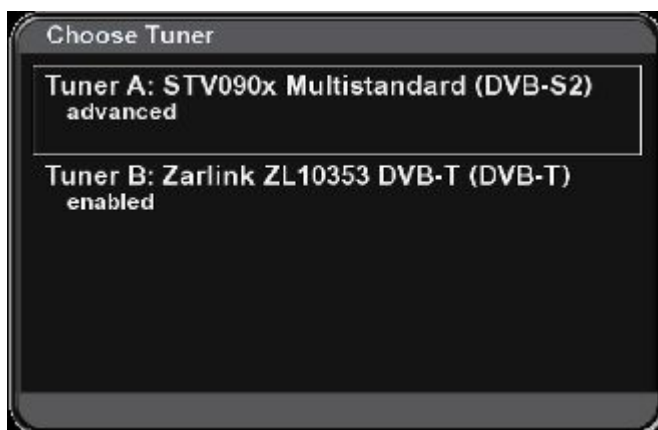


## Tuner configuration

(Menu – Setup – Service Searching - Tuner configuration)



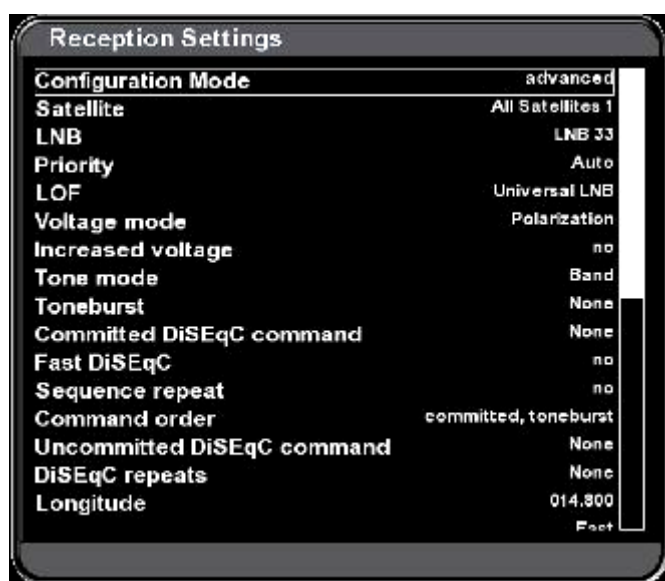
## Choose Tuner



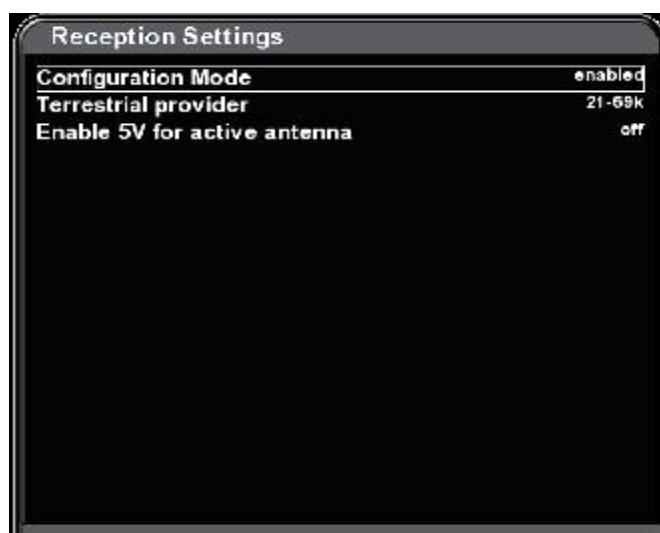
Type and configuration of installed tuners is displayed in this menu.

Select the tuner to be configured and press OK.

## Tuner configuration for motor with USALS (GOTOX) system – example:



Next page of the menu:



Configuration Mode – advanced

**Example:** Satellite – **All satellites 1**

Use cursor buttons to select desired satellite.

LNB number is automatically allocated to selected satellite (e.g. **LNB 33**).

All the data essential for connecting your dish to USALS motor are preset in the table and if you use Universal type of LNB it is not needed to change them.

**Set up your geographical position**  
(accuracy 0,100° )

In example:

Longitude: 14.800° East

Latitude: 52,000° North

Press OK to save the settings.

Configuration of Tuner B.

Example of configuration of DVB-T tuner:

Configuration Mode – **enabled**

Terrestrial provider – **21-69k**

Remain item „Enable 5V for active antenna“ set to „**off**“.

Change it onto „on“ in a case that you use active antenna with built-in amplifier feeded via coaxial cable.



## Tuner configurations for connection with DiSEqC switch for 4 satellites:

Reception Settings	
Configuration Mode	advanced
Satellite	01=19.2E ASTRA
LNB	LNB 1
Priority	Auto
LOF	Universal LNB
Voltage mode	Polarization
Increased voltage	no
Tone mode	Band
DiSEqC mode	1.0
Toneburst	None
Committed DiSEqC command	AA
Fast DiSEqC	no
Sequence repeat	no
Command order	committed, toneburst

Configuration Mode	advanced
Satellite	02=13.0E HOTBIRD
LNB	LNB 2
Priority	Auto
LOF	Universal LNB
Voltage mode	Polarization
Increased voltage	no
Tone mode	Band
DiSEqC mode	1.0
Toneburst	None
Committed DiSEqC command	AB
Fast DiSEqC	no
Sequence repeat	no
Command order	committed, toneburst

Configuration Mode	advanced
Satellite	42=23.5E ASTRA3A/H/E/10
LNB	LNB 3
Priority	Auto
LOF	Universal LNB
Voltage mode	Polarization
Increased voltage	no
Tone mode	Band
DiSEqC mode	1.0
Toneburst	None
Committed DiSEqC command	BA
Fast DiSEqC	no
Sequence repeat	no
Command order	committed, toneburst

Configuration Mode	advanced
Satellite	08=0.8W THOR/INTELSAT
LNB	LNB 4
Priority	Auto
LOF	Universal LNB
Voltage mode	Polarization
Increased voltage	no
Tone mode	Band
DiSEqC mode	1.0
Toneburst	None
Committed DiSEqC command	BB
Fast DiSEqC	no
Sequence repeat	no
Command order	committed, toneburst

### Configuration Mode – advanced

Selected satellite – **19,2 ASTRA**

LNB **LNB 1**

LNB convertor for Astra 19,2E is connected to input 1 = A = AA of DiSEqC switch.

**DiSEqC mode** - selected **1.0**.

**Committed DiSEqC command** - **AA**

Configuration for second satellite:

Selected satellite – **13E HOTBIRD**

LNB **LNB 2**

LNB convertor for HotBird 13E 2E is connected to input 2 = B = AB of DiSEqC switch.

**DiSEqC mode** - **1.0**

**Committed DiSEqC comm.** – **AB**

Configuration for third satellite:

Selected satellite – **23,5E ASTRA3**

LNB **LNB 3**

LNB convertor for ASTRA3 23 is connected to input 3 = C = BA, AB of DiSEqC switch..

**DiSEqC mode** - **1.0**

**Committed DiSEqC comm.** – **BA**

Configuration for fourth satellite:

Selected satellite – **0,8W THOR**

LNB **LNB 4**

LNB convertor for Thor 0,8W is connected to input 4 = D = BB of DiSEqC switch.

**DiSEqC mode** - **1.0**

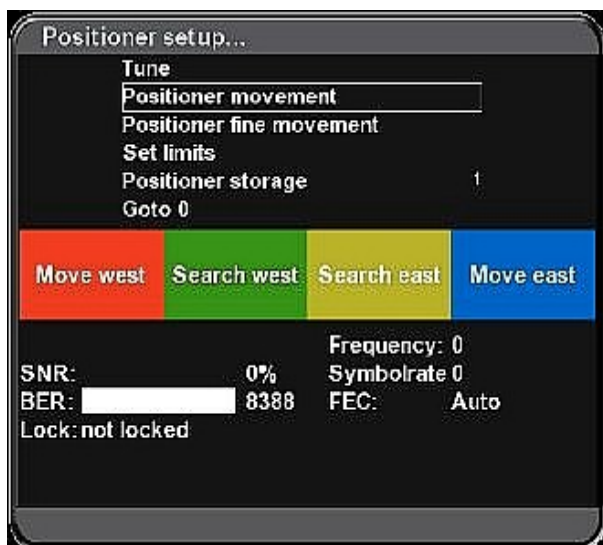
**Committed DiSEqC comm.** – **BB**

If you use switch with more then four inputs, set up „DiSEqC mode“ parameter - 1.1.

## Manual configuration of DiSEqC 1.2 motor

(Menu – Setup – Service Searching – Positioner setup)

This setting is used only for **DiSEqC motors without USALS system**.



Tuner is set for DiSEqC 1,2 , **USALS is turned off** and satellites to be aimed with motor are selected.

„**Tune**“ – press Red function button to display menu for entering satellite and TP to be searched. Press OK for return to setup menu.

You have to set up corresponding transponder for every satellite and save its position number.

**Positioner movement** – use color function buttons (according to description) to control movement of the motor. Press the button once to start movement, press it for the second time to stop the movement..

**Positioner fine movement** step by step movement. Try to reach maximum value of SNR parameter.

**Positioner storage** – press Green function button to save the position.

**Set limits** – Setting up the east and west

## Service searching

(Menu – Setup – Service Searching – Default services lists)

This menu enables installation of basic (default) setting for basic satellites (Astra 28,2E, Astra 19,2E, Astra 23,5E and HotBird 13E) – same way like during initial configuration.

Warning!

Actual setting in your receiver will be removed during Default setting installation!

If you need setting for more satellites you can install it as a plugin:

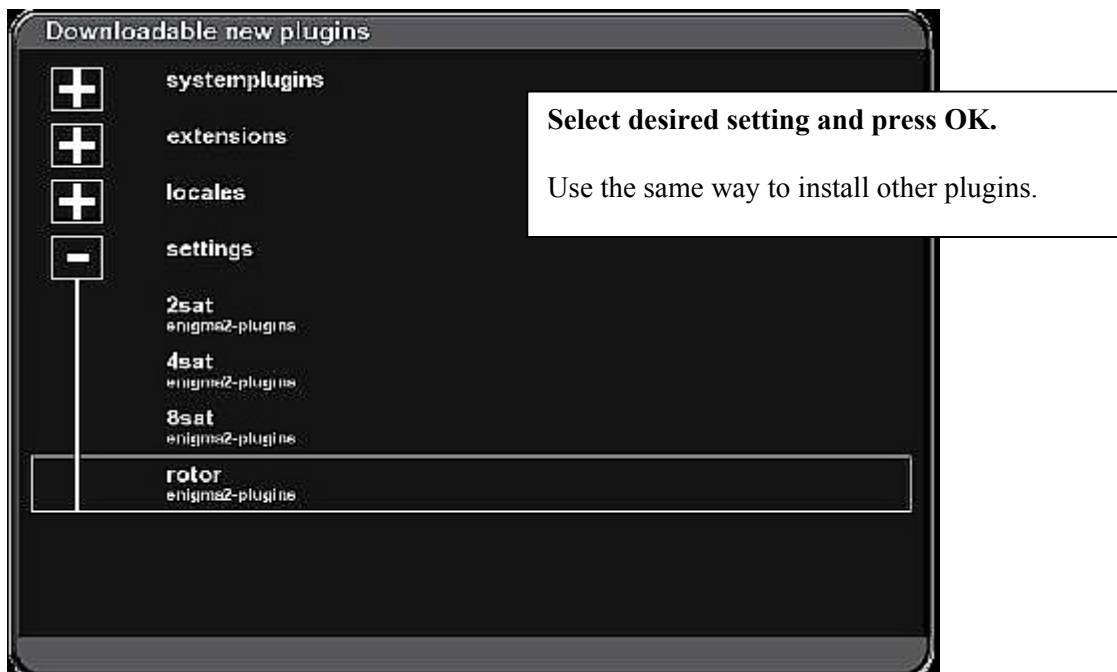
## Plugins

(Menu – Plugins – Download Plugins)



Press GREEN function button „Download Plugins“.  
Wait until downloading catalogue of plugins from the Internet.  
Select Settings item and press OK.

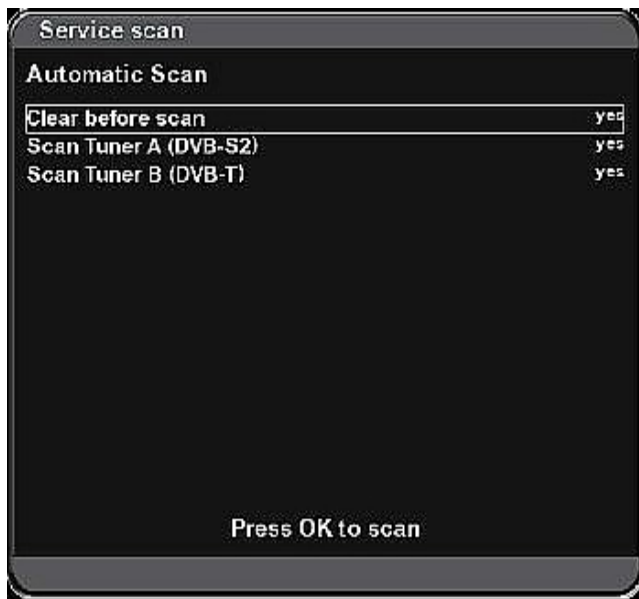




You can also use DreamboxEdit software in your PC to install and edit the setting.

## Automatic Scan

(Menu – Setup – Service searching – Automatic Scan)



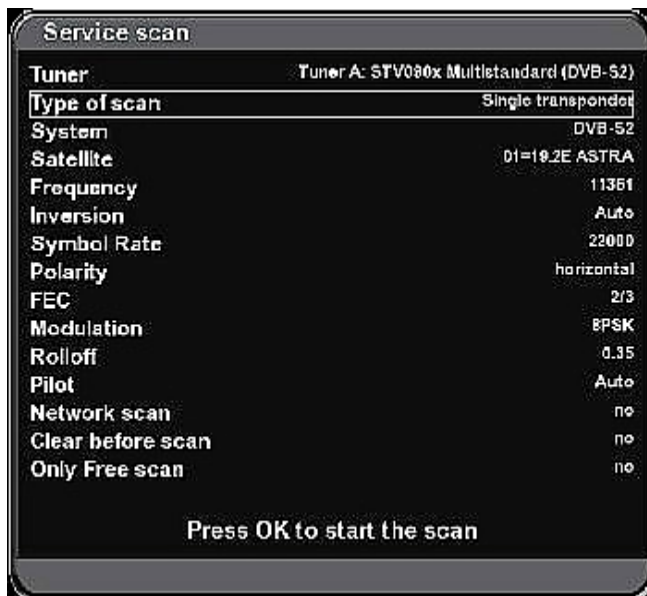
**Clear before scan – „yes“:**

Removes all channels searched before.

**Scan Tuner A (DVB-S2)- „yes“:**

Runs searching on all available satellites according to setting of the tuner (if you use a motor it can last several tens of minutes).

## Manual scan



### Tuner A or B

#### Type of scan:

**Single satellite** – select one single satellite to be searched on and press OK for starting the searching.

**Single transponder** - insert parameters for one particular transponder and press OK:

**System** – DVB-S or DVB-S2 .

**Satellite** – name of satellite.

**Frequency** – frequency of TP.

**Symbol rate**

**Polarity**

**FEC** – set the right value or set „Auto“

**Modulation:** QPSK – 8PSK

**Network scan** – if set to „yes“ it searches on all TPs of corresponding provider (if the service is supported by the provider).

**Only Free scan** – searching only for FTA channels.

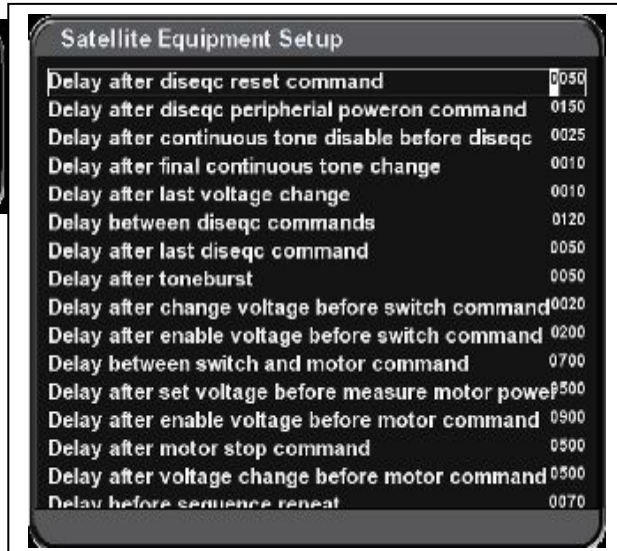
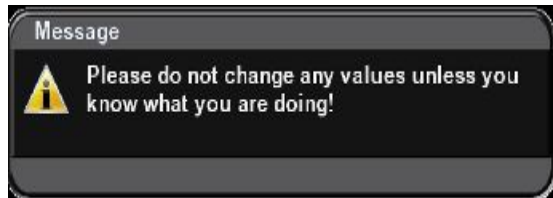
Press OK to start searching.

You can find specific parameters of satellites and transponders e.g. on: <http://kingofsat.net> , <http://lyngsat.com> , [www.parabola.cz](http://www.parabola.cz) and other web pages.

## Satellite Equipment setup

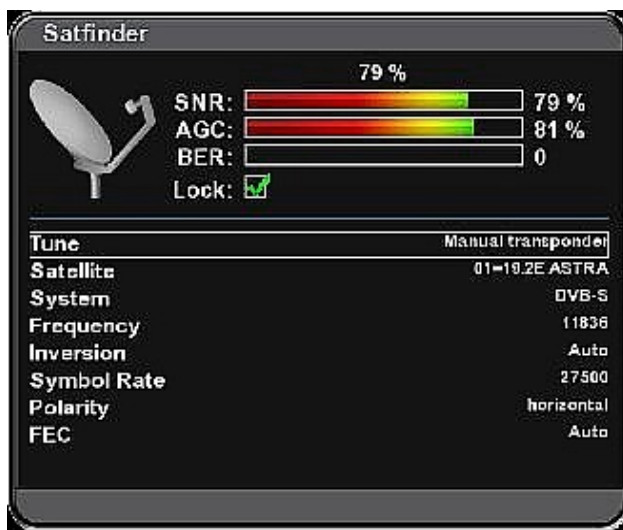
(Menu – Setup – Service Searching – Satellite Equipment setup)

**We strongly recommend not changing the parameters in this menu if you are not an expert!**



## Satfinder

(Menu – Setup – Satfinder)



**Satfinder** menu is used to help to adjust alignment of your antenna dish.

SNR = Signal/Noise Ratio – quality of the signal.

AGC= Automatic Gain Control – strength of the signal (including noise and interference)

BER= Bit Error Rate

**To achieve the best quality reception try to reach maximum SNR value and zero BER.**

**Tune – Manual transponder** = use cursor and numerical buttons on RC to set up parameters manually:

**Satellite** – select corresponding satellite.

**System, Frequency, Symbol rate, Polarity and FEC** – set up manually according to parameters of transponder on witch you are going to check quality of the signal.

or:

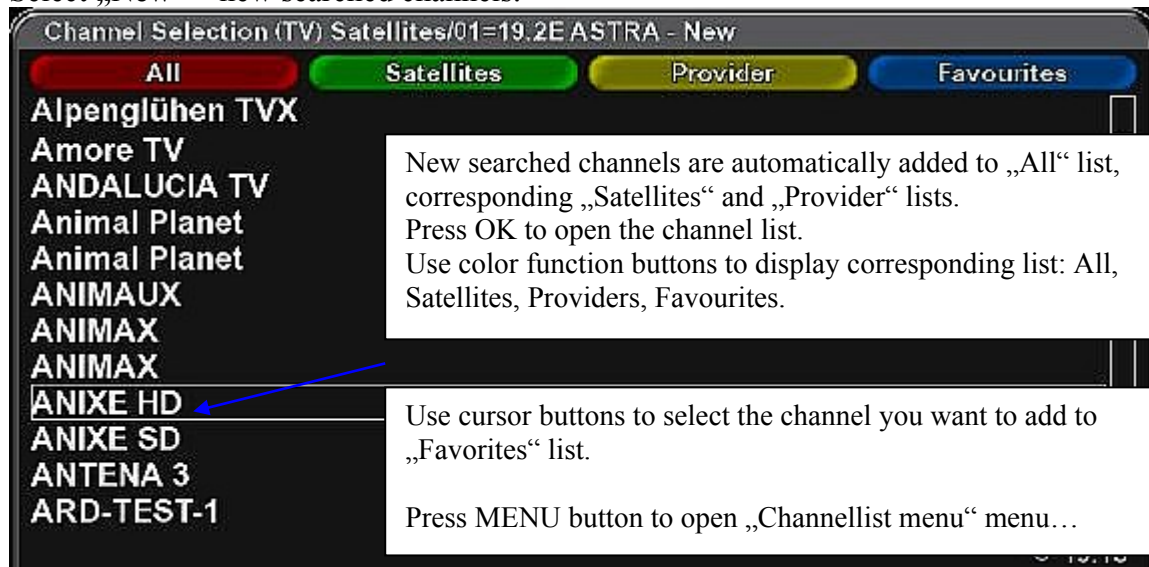
**Tune – Preset transponder** = It sets up default (preset) transponder with all its parameters.

Adjust the dish position very slowly. If the signal quality is sufficient for searching the channels, marker is displayed in Lock window.

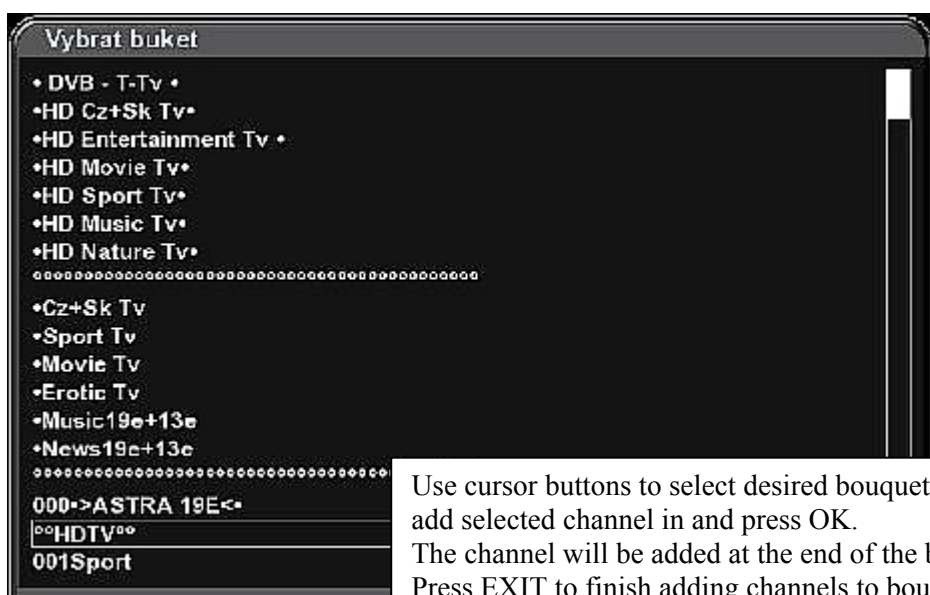
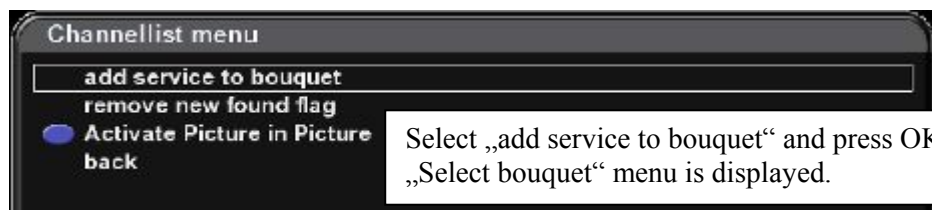
## Adding channels into „Favorite“ lists (bouquets)

These lists (bouquets) are used for common simple orientating among your favorite channels.

Select „New“ – new searched channels.



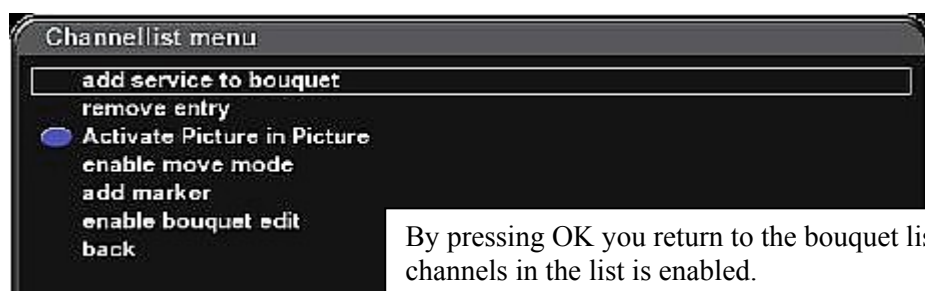
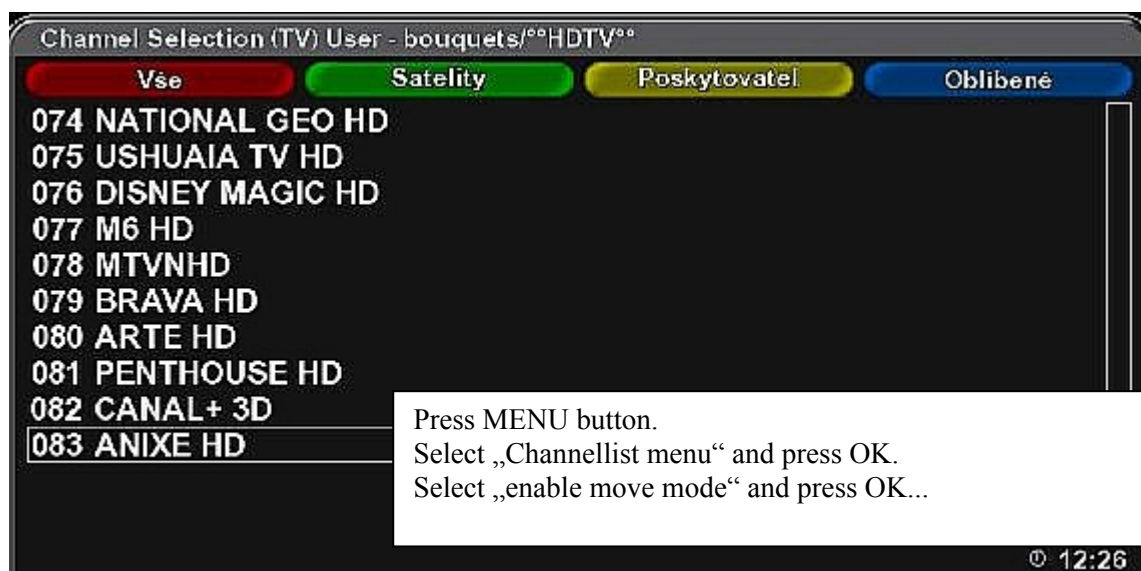
## Channellist menu



## Changing position of channels in bouquet list

OK – Blue button – select a bouquet containing the channel you want to change position in the list – OK. Select the channel to be moved.

(The list is always opened on the first channel of the list. Press cursor button Up once to jump on the last channel in the list.)



## Direct selection of channel by numeric buttons.

Channels from all bouquets are sequenced in „Favorites“ list according to their numbers. It enables their direct calling by entering their number (the number is also shown on infobar).

We do not recommend adding the same channel to several bouquets. It will cause that one channel will be stored under several different numbers!

If the channel is contained in more bouquets it is possible to use only the number shown on infobar for direct selection.

## Creating a new bouquet

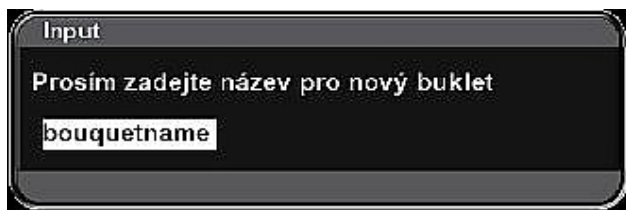
Use „Channellist menu“ menu to create a new bouquet.

(OK – Blue – Blue – MENU)

Select “add bouquet” and press OK.



„Please enter name for the new bouquet“ windows appears on the screen.



Writing the name of new bouquet:



Use alphanumeric buttons on RC to write down a name of new bouquet into „Input“ window:

Pg/Up - removes letter in front of the cursor

Pg/Down – removes letter behind the cursor

1 – space, 1.

2 – a, b, c, 2, A, B, C

3 – d, e, f, 3, D, E, F

4 – g, h, i, 4, G, H, I

5 – j, k, l, 5, J, K, L

6 – m, n, o, 6, M, N, O

7 – p, q, r, s, 7, P, Q, R, S

8 – t, u, v, 8, T, U, V

9 – w, x, y, z, 9, W, X, Y, Z

0 - . , ? ' + " 0 - ( ) @ : \_ /

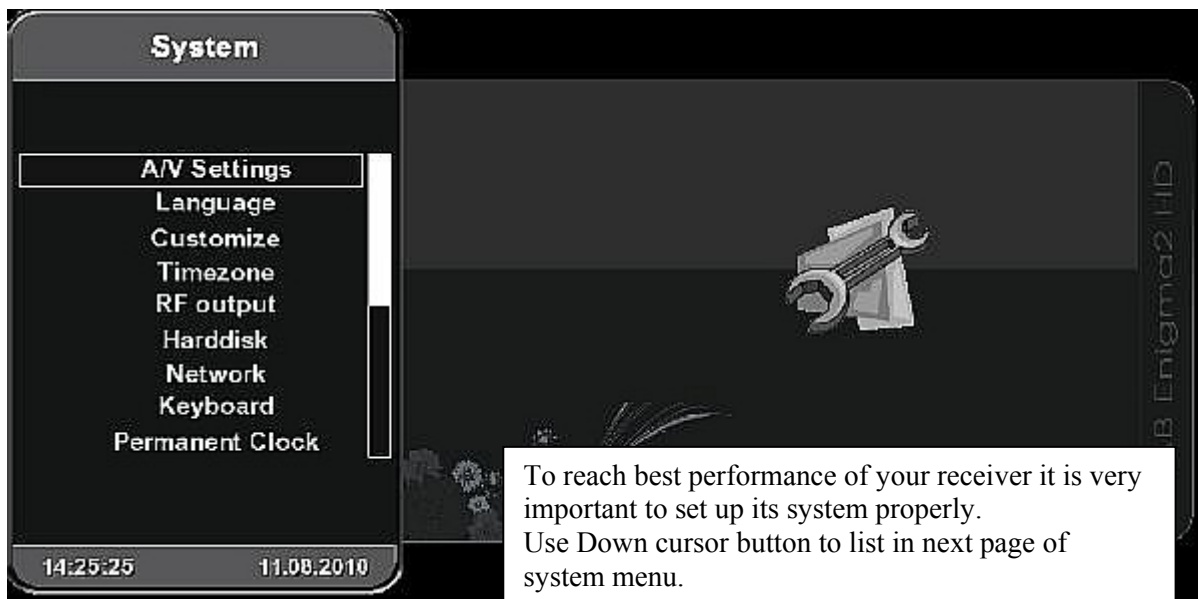
Recal - . , ? ' + " 0 - ( ) @ : \_ /





## System setup

(Menu – Setup – System)



System menu - next page:

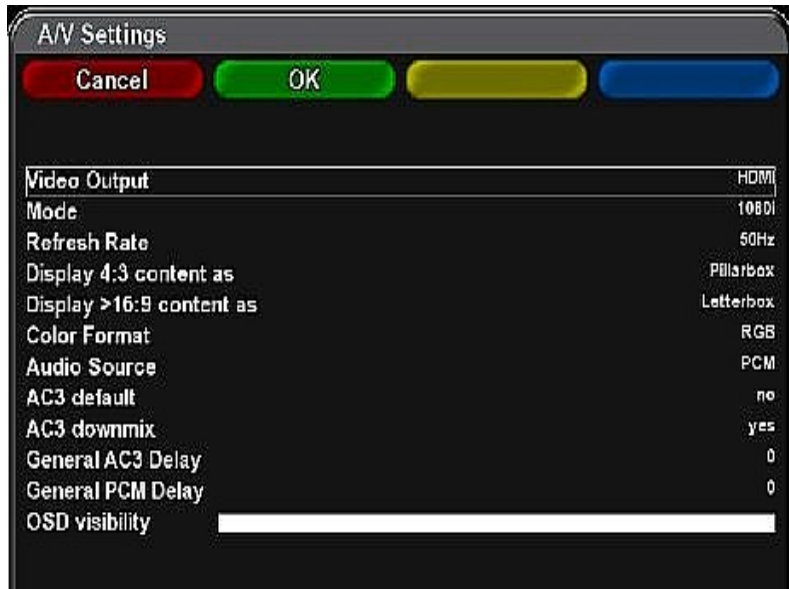


## AV Setting

(Menu – System – AV Setting)

Select first item in System menu (A/V Setting) and press OK.

Menu for setting up audio/video appears. Use cursor buttons to select desired item (parameter) and press OK.



Use Left/Right cursor button to set selected parameter.

**Video Output:** HDMI, HDMI-PC, Component, Scart

**Mode:** 1080i, 576p, 720p

**Refresh Rate:** 50 Hz for Europe, 60 Hz for USA

**Display 4:3 content as:** Pillarbox, Full screen, Wide Zoom, Pan & Scan

**Display 16:9 content as:** Letterbox, Full screen, Pan&Scan

**Color Format** - Video RGB, 4.2.2, YUV.

**Audio Source** - PCM – analogue, SPDIF = digital optical output

**AC3 default** – permanently preset multichannel digital audio source. Options „yes“ – „no“. Recommended „no“.

**AC3 downmix** – audio downmix on analogue outputs – „yes“

**General AC3 Delay** – use numerics to set up the parameter

**General PCM Delay** – – use numerics to set up the parameter. Recommended „75“.

Press GREEN function button to save your settings.



## Language

(Menu – Setup – System – Language)

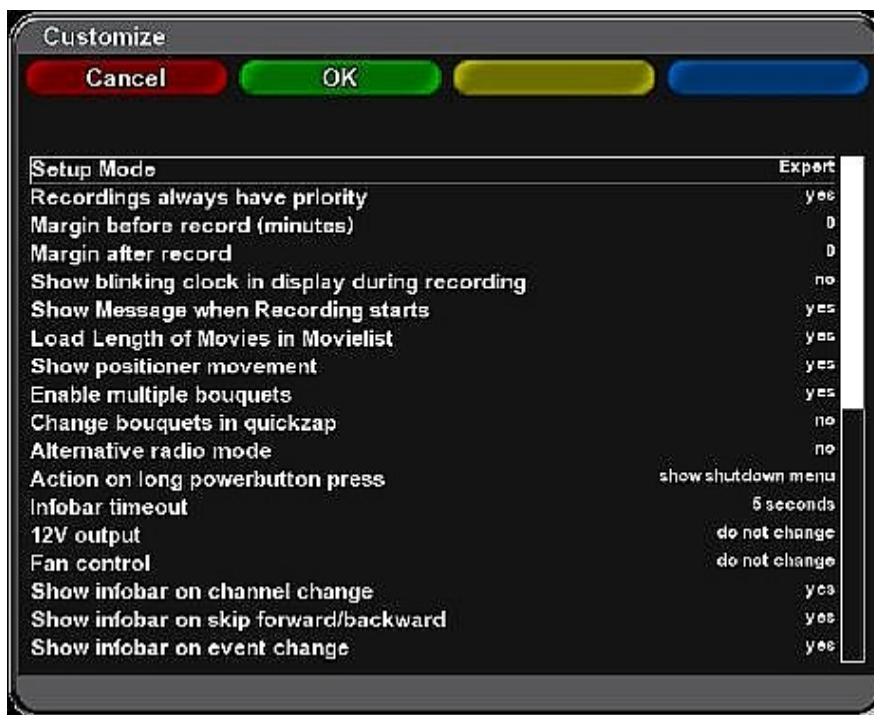


Use Up/Down cursor buttons to select desired language.  
Press OK to confirm your selection.

## Customize

(Menu – Setup – System – Customize)

This menu contains detailed system settings you can adjust. Do not change the setting of any parameter if you are not absolutely sure.



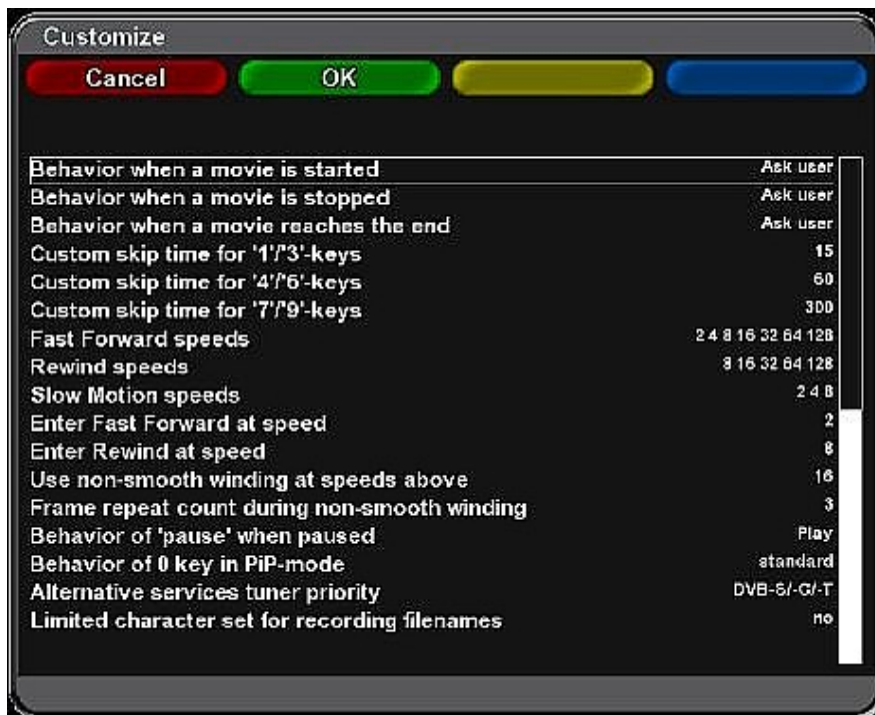
### Customize menu - Page 1

#### Setup mode

Simple,  
Intermediate,  
Expert.  
Default setting of the item is „Intermediate“. Use Left/Right buttons to set up the level of setting up your receiver.

**Change the „Setup Mode“ back to „Intermediate“** and press Green button and OK.

It enables direct access to **PLUGINS** download from the menu.



Customize menu -  
Page 2

## Timezone

(Menu – Setup – System – Timezone)



Use Left/Right cursor buttons to adjust Timezone according your location.  
Correct setting up of Timezone is essential for correct function of automatic setting of time, EPG and recording timer.

## RF output

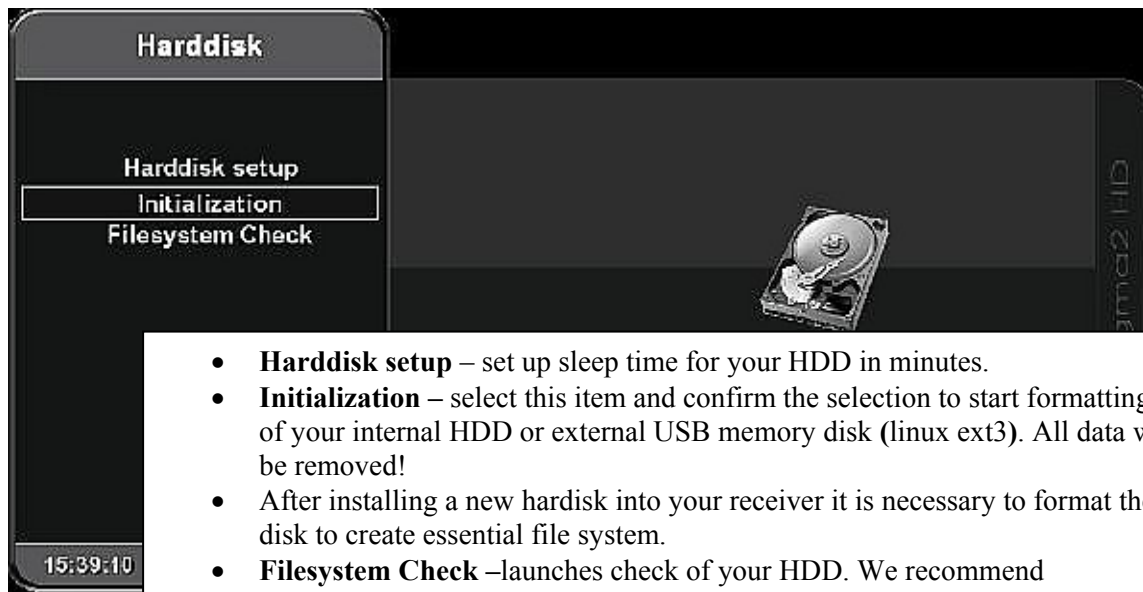
(Menu – Setup – System – RF output)



Setting up parameters for modulator.  
Set up „on“ to enable RF modulator.  
Set up number of UHF channel for modulator in the line „Channel“.  
Use Left/Right buttons to adjust frequency (Finetune).  
It is possible to use modulator for picture transmission only with mono sound and when SD-PAL 576 video resolution is used.

## Harddisk

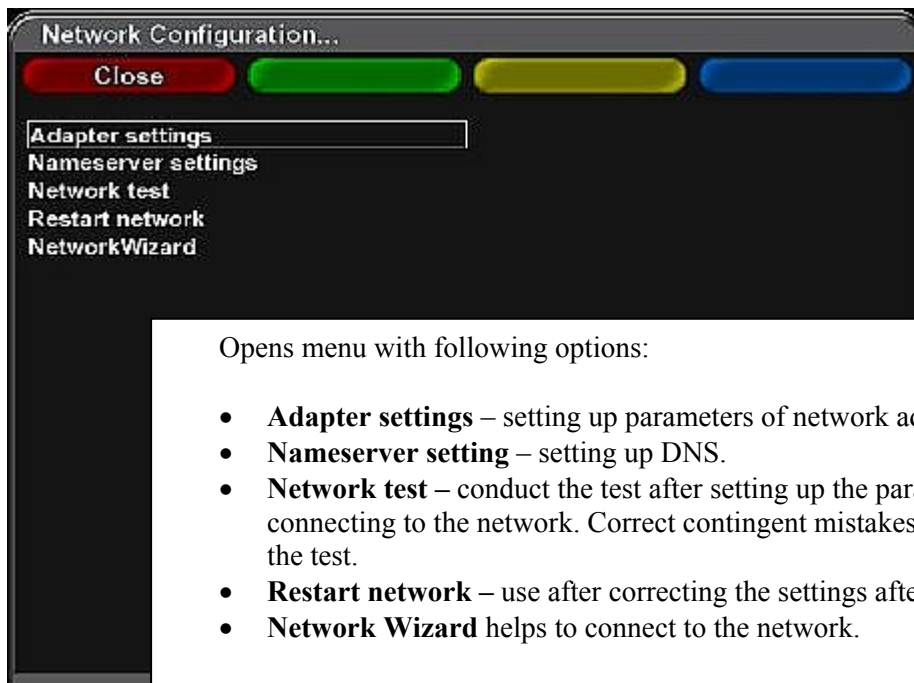
(Menu – Setup – System – Harddisk)



- **Harddisk setup** – set up sleep time for your HDD in minutes.
- **Initialization** – select this item and confirm the selection to start formatting of your internal HDD or external USB memory disk (linux ext3). All data will be removed!
- After installing a new harddisk into your receiver it is necessary to format the disk to create essential file system.
- **Filesystem Check** – launches check of your HDD. We recommend conducting the check at least once in two months. It can last several minutes depending on the size of your HDD.

## Network Configuration:

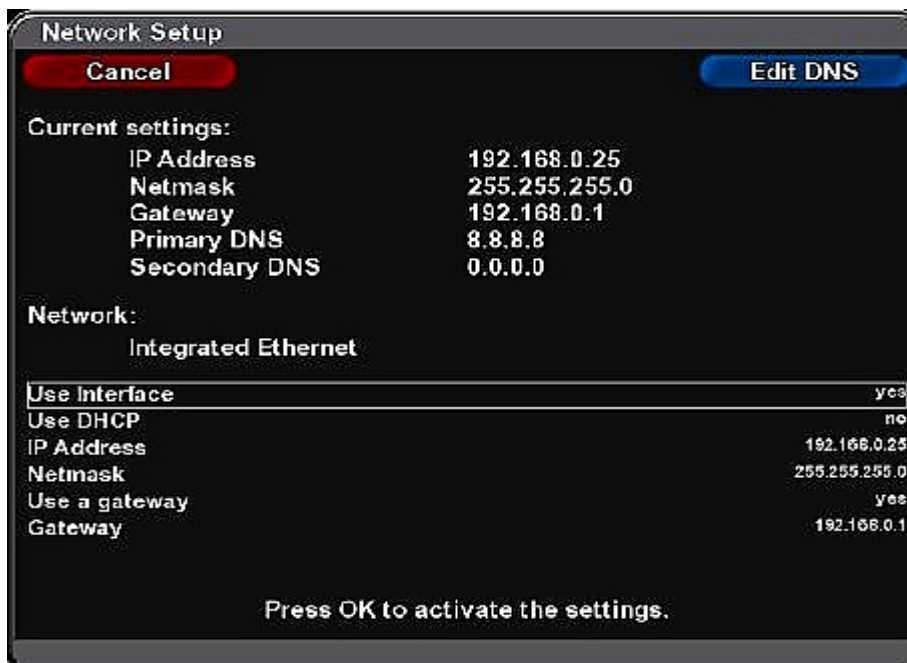
(Menu – Setup – System – Network Configuration)



Opens menu with following options:

- **Adapter settings** – setting up parameters of network adapter.
- **Nameserver setting** – setting up DNS.
- **Network test** – conduct the test after setting up the parameters and connecting to the network. Correct contingent mistakes according to result of the test.
- **Restart network** – use after correcting the settings after faulty test.
- **Network Wizard** helps to connect to the network.

## Adapter settings



Possible example of setting of network parameters:

Use interface: yes  
Use DHCP: no  
IP Address: must be from the group used in your network  
Netmask: the same address as in other devices connected to the network  
Use a gateway: yes  
Gateway: IP address of gateway

Press OK to confirm your setting.  
Press BLUE function button to open DNS – nameserver setup menu.

Network Wizard helps you to set up the network by means of OSD information on the screen of your TV.

## Keyboard

(Menu – Setup – System – Keyboard)



Use Left/Right cursor buttons to select keyboard type of your IP box.  
Press Green function button to save the setting.

## Recording paths

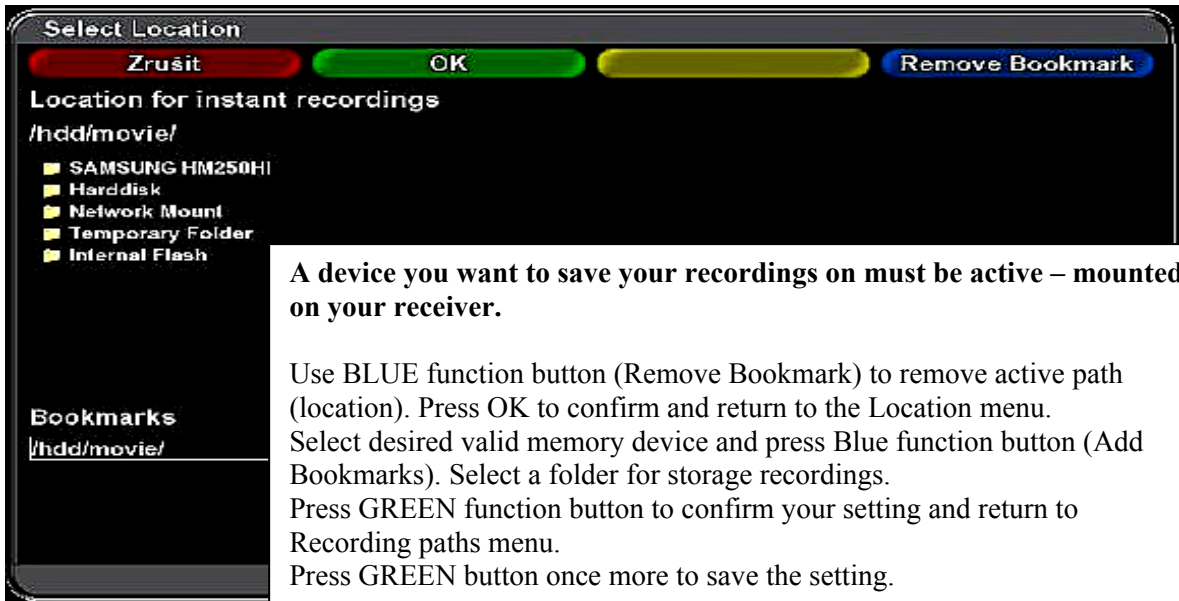
(Menu – Setup – System – Recording paths)



Menu for setting up the path (locations on the disk) for your recordings.

Select the item and press OK to open submenu for setting the location.

## Selection of location of records for instant recordings



**Select Location**

Zrusit OK Remove Bookmark

Location for instant recordings

/hdd/movie/

- SAMSUNG HM250HI
- Harddisk
- Network Mount
- Temporary Folder
- Internal Flash

Bookmarks

/hdd/movie/

A device you want to save your recordings on must be active – mounted on your receiver.

Use BLUE function button (Remove Bookmark) to remove active path (location). Press OK to confirm and return to the Location menu. Select desired valid memory device and press Blue function button (Add Bookmarks). Select a folder for storage recordings. Press GREEN function button to confirm your setting and return to Recording paths menu. Press GREEN button once more to save the setting.

## Video Fine Tuning:

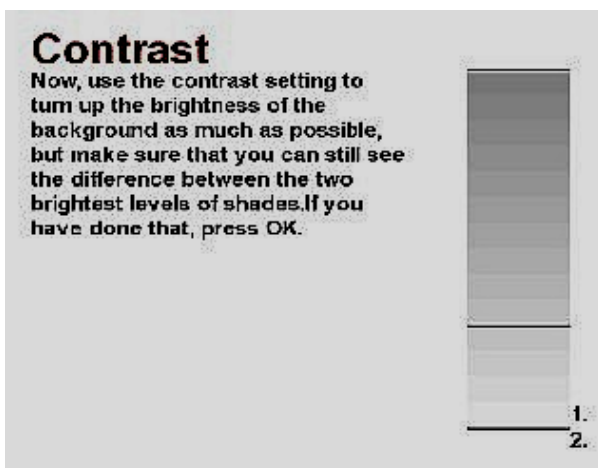
(Menu – Setup – System – Video Fine – Tuning)



**Brightness**

If your TV has a brightness or contrast enhancement, disable it. If there is something called "dynamic", set it to standard. Adjust the backlight level to a value suiting your taste. Turn down contrast on your TV as much as possible. Then turn the brightness setting as low as possible, but make sure that the two lowermost shades of gray stay distinguishable. Do not care about the bright shades now. They will be set up in the next step. If you are happy with the result, press OK.

1.  
2.



**Contrast**

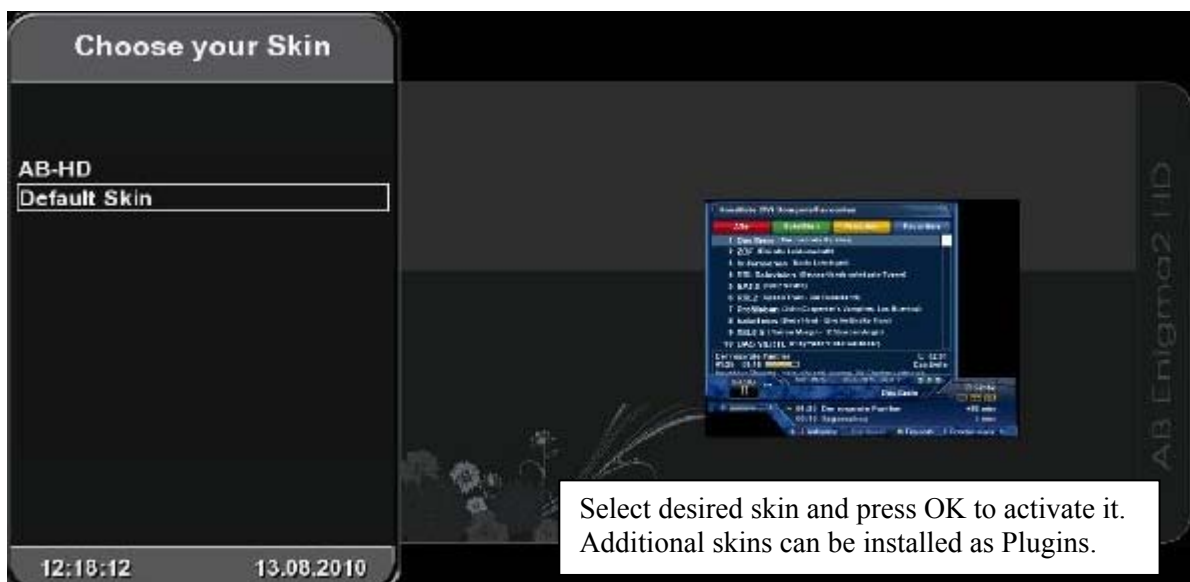
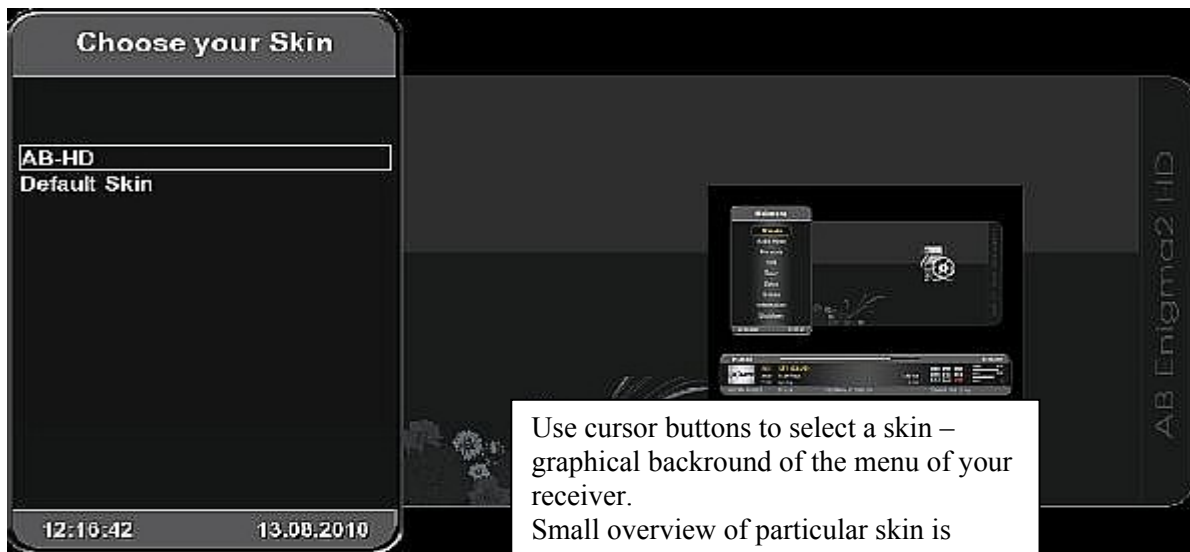
Now, use the contrast setting to turn up the brightness of the background as much as possible, but make sure that you can still see the difference between the two brightest levels of shades. If you have done that, press OK.

1.  
2.

Follow instructions on the screen of your TV to adjust „Brightness“ and „Contrast“ parameters.

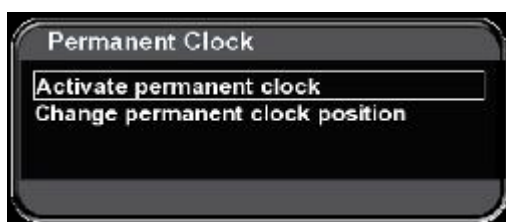
## Skin

(Menu - Setup – System – Skin)



## Permanent Clock

(Menu – Setup – System - Permanent Clock)



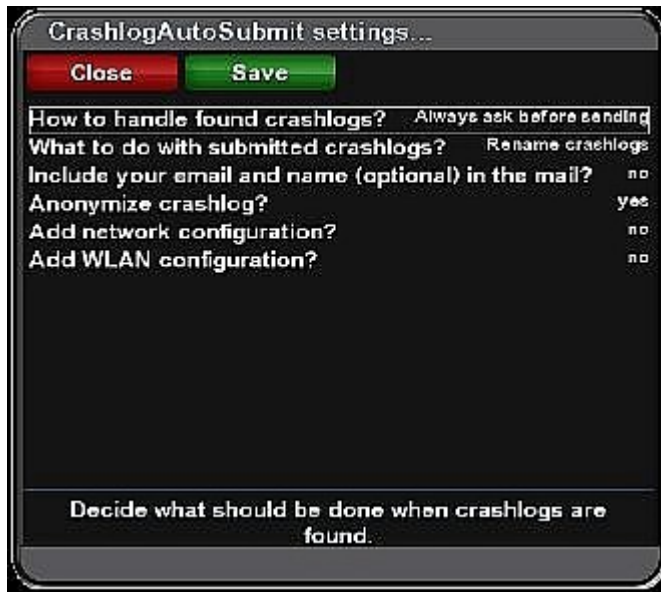
Select „Activate permanent clock“ and press OK to activate permanent display of time clock on the screen of your TV.

Select „Change permanent clock position“ and press OK to change position of the clock on the screen. Use cursor buttons to adjust the position.



## Crashlog settings

(Menu – Setup – System – Crashlog settings)

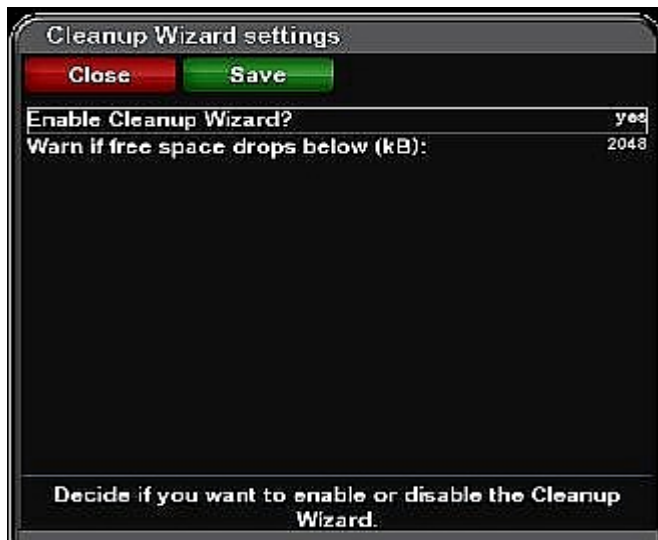


Crashlog (system failure extract notes) setting can be done in this menu.

There is no purpose for common user to deal with it.

## Cleanup settings

(Menu – Setup – System – Cleanup settings)



First line – activate or deactivate Cleanup Wizard (warning when free space of internal memory is below the value set in the second line): „yes“ – „no“

We do not recommend to lower the value.

## Allinone Panel



**Aspect Ratio** – consequently press Green function button to adjust Aspect Ratio for SD channel. Direct changing the Aspect Ratio = middle button on the second bottom line of your remote controller.

**Sleep timer** – press Yellow unction button to activate menu for setting up Sleep timer (automatic shut down of your receiver after elapsing a set time).

**Skin Selector** – press Blue function button to display list of all available (installed) skins. Use cursor buttons to select desired one.

## Sleep Timer

(Menu – Allinone Panel – Sleep Timer)



Use numeric buttons to set up „Shutdown Ipbox after“ time in minutes.

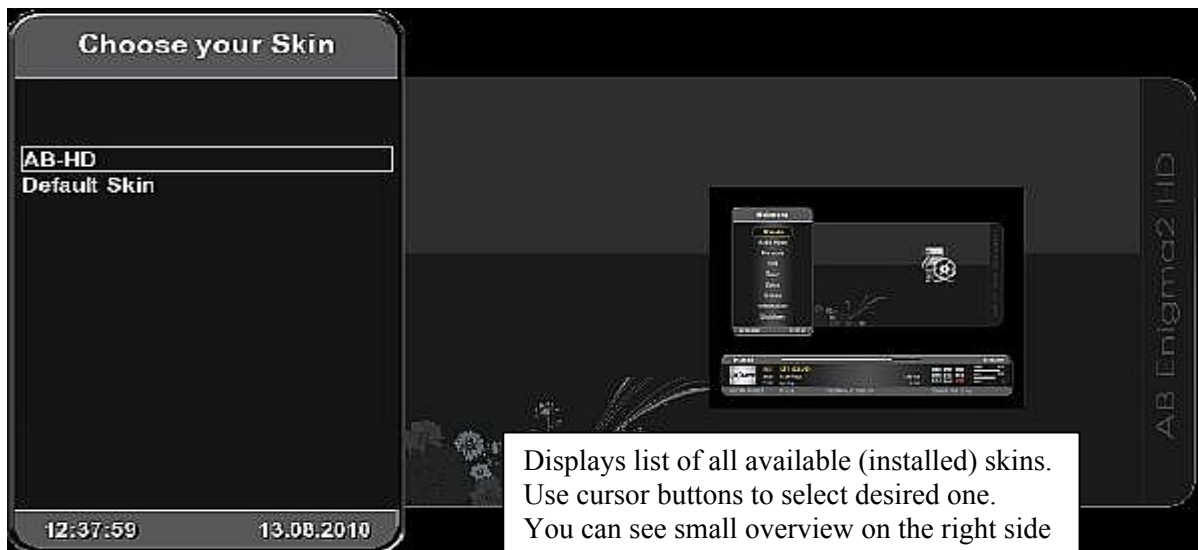
Press Red function button to enable timer.

Consequently press Green function button to set up Sleep timer mode (action).

Consequently press Yellow function button to set up whether to ask before shutting down or not.

## Skin Selector

(Menu – Allinone Panel – Skin Selector)



Displays list of all available (installed) skins. Use cursor buttons to select desired one. You can see small overview on the right side of the screen.



## Select Var

(Menu – Allinone Panel - Select Var)



You can set up one of the three memory medias for storage of setting and plugin files (var):

**Flash** – internal memory – usually sufficient for troublefree operation (with limited number of installed plugins).

**USB** – external USB flash memory – enables installation of more number of plugins – if demanded.

**Hdd** – also enables installation of more number of plugins. Main disadvantage is that in that case HDD is permanent turned on (running).

## Script executor

(Menu – Allinone Panel - Script executor)

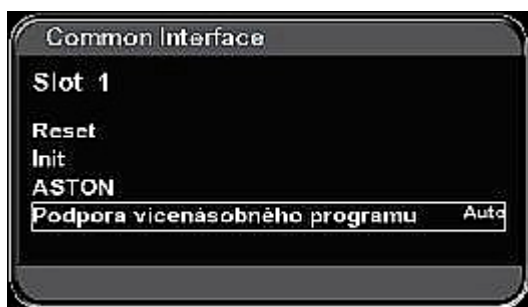


You can add some other standardly not installed functions to your receiver by installing so called „scripts,, – short created programs saved in /var/sbin/ folder.

List of all available scripts is displayed on this menu. Use cursor buttons to select one and press Red function button (Execute) to run it.

## Common Interface

(Menu – Allinone Panel - Common Interface)



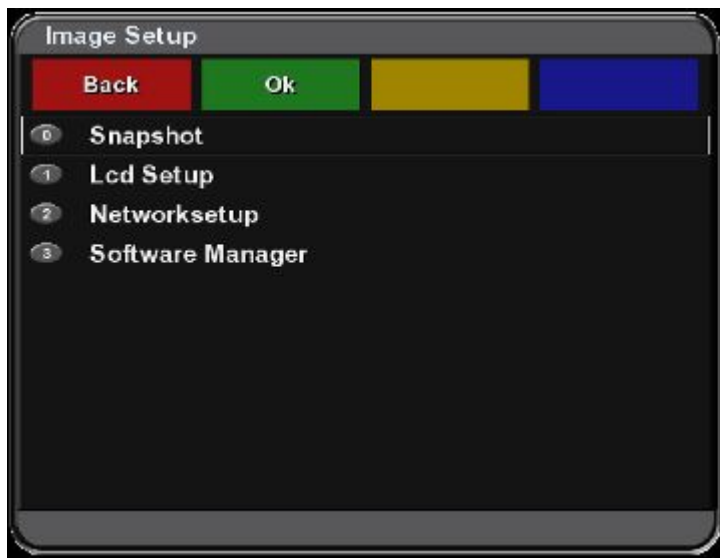
**Common Interface** is interface for inserting encrypting modules with corresponding access card to decode pay television.

It is possible to use several types of modules e.g. Cryptoworks, Irdeto etc. And also programmable modules.

Insert CI module. Corresponding menu of inserted module is displayed. You can initiate the CI module from the menu.

## Image Setup

(Menu – Allinone Panel - Image Setup)



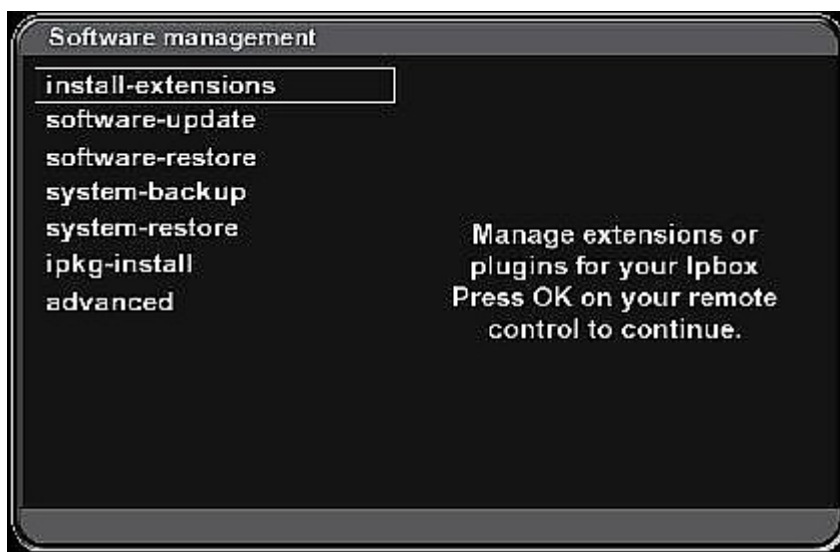
**Snapshot and Lcd Setup** – not active. It is prepared for further development.

**Network Setup** – opens menu for setting up Ethernet.

**Software Manager** opens menu for management, backup and installation of software.

## Software Manager

(Menu – Allinone Panel - Image Setup - Software Manager)



**Install – extensions** opens menu „Extensions management“ for downloading list of plugins from the Internet from preset servers.

**Software update** opens menu for updating installed firmware from the Internet.

**Software restore** opens menu „Image upgrade wizard“.

## Software restore - Image upgrade wizard



Follow the instructions on the screen.

Select „OK, guide me through...“ and press OK to activate the wizard or select „Exit the wizard“ and press OK to exit.

Image upgrade wizard – page 2:



Select memory media for storage backup files – the corresponding folder path is displayed on the LCD display of your receiver:

**Harddisk**

/media/hdd/

**Network Mount**

/media/net/

**Temporary Folder**

/tmp/

(Example on the picture also USB)

**USB Mass Storage**

/autofs/sdb3/

Press OK to run backup saving. After successful action an information window appears. Press OK to continue the upgrade.

Note:

It is good to use USB memory (flash) when you want to set up the same way several receivers. In such a case setting up can be conducted simply by „Backup restore“ function.

**Take care of consumption of used USB flash memory for backup** – both USB ports are protected against overloading! Use USB HUB with external power supply for USB flash memory devices with higher consumption. Flash format - FAT32 or format USB disk in the Ipbox - Linux. Ext3.

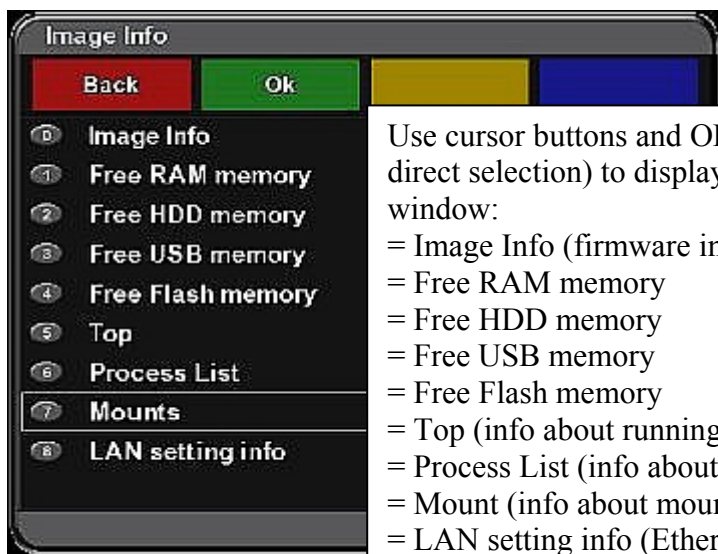
Image upgrade wizard –successful backup message screen:



After image upgrade you can restore your settings with „Backup restore“ function.

## Image Infos

(Menu – Allinone Panel - Image Infos)



Use cursor buttons and OK button (or numeric buttons for direct selection) to display corresponding information window:

= Image Info (firmware information)

= Free RAM memory

= Free HDD memory

= Free USB memory

= Free Flash memory

= Top (info about running files and its locations)

= Process List (info about running processes)

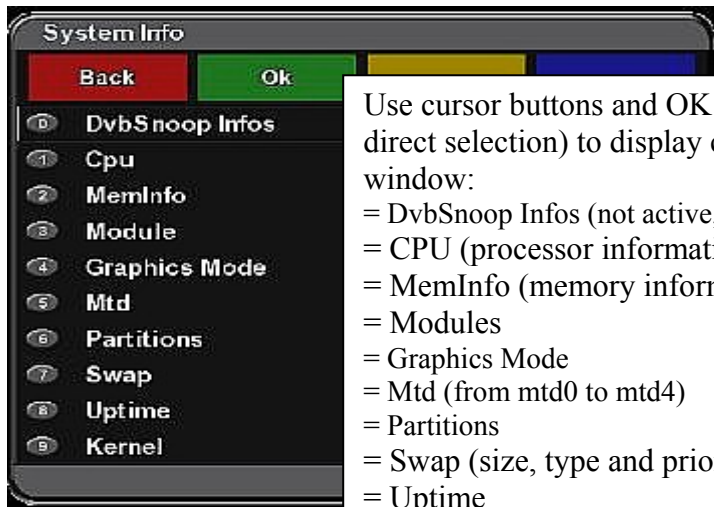
= Mount (info about mounted accessories)

= LAN setting info (Ethernet setting)

Press Red function button (Back) to leave the menu.

## System Infos

(Menu – Allinone Panel - System Infos)



Use cursor buttons and OK button (or numeric buttons for direct selection) to display corresponding information window:

= DvbSnoop Infos (not active, prepared for future development)

= CPU (processor information)

= MemInfo (memory information)

= Modules

= Graphics Mode

= Mtd (from mtd0 to mtd4)

= Partitions

= Swap (size, type and priority)

= Uptime

= Kernel (Linux version, author, release date)

## Menu config

(Menu – Allinone Panel - Menu config)



Activates/deactivates whether to display the option in the menu or not.

## Subtitle



Use cursor buttons to select desired subtitle and press OK.

To enter this menu directly, press „Subtitle“ button on your remote controller (middle button on upper line of RC).

## Recording

The AB IPBox is capable of recording selected programs and saving them on built-in hard disc or connected memory device with sufficient memory capacity.

### Instant recording of just watched program

Press REC button, a confirmation window appears. Use cursor buttons and OK or numeric buttons to select a type of recording (finish time). Recording starts immediately after the selection (except for option “don’t record – this option cancels recording).



### Recording of channel different from just watched one

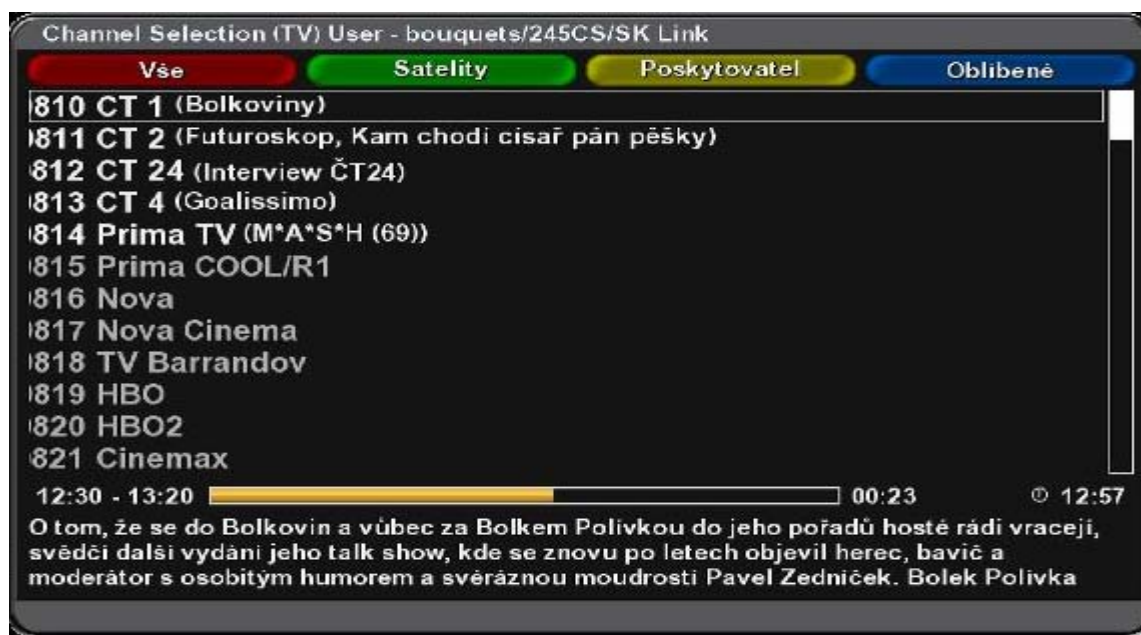
The IPBox enables watching a program on a channel while recording different program on different channel.

Capability of this function depends on tuners configuration in your receiver.

If your receiver is equipped with only one tuner, it is possible to record and watch different channel but only from the same transponder .

If your receiver is equipped with two tuners, it is possible to watch one channel and record two different channels from two different transponders.





**Finishing the recording** – press REC or TV button to open menu. If recording more programs, select the one to be finished and press OK.

### Deleting records

Press FILES button to open records files list. Use cursor buttons to select particular file and press MENU. Select “Delete” option and press OK. Confirmation window appears – select “yes” and press OK. Selected file will be removed.  
Records (files) can be deleted only one by one.

### Timeshift

Actual watched program is permanently automatically recorded. If you have to interrupt your watching and you do not want to miss the program, just press PAUSE button. Playback of the program will stop (freeze) but background recording will persist. After coming back to your TV, just press PAUSE button to continue playback from the stopped point (with corresponding time shift against real broadcasting).  
Pressing STOP button will terminate the timeshift playback – realtime playback will start.

### PIP (Picture In Picture)

This function is available only during watching standard resolution program.  
Press BLUE function button to open the menu. Press BLUE button again to activate PIP function.  
Press OK to open channel list. Active channels are highlighted. Select the program for PIP function and press OK. Originally watched program will be displayed in small window; new selected program will be displayed regularly (full screen).  
Press BLUE and YELLOW buttons consequently to switch the channels.  
Press BLUE button twice to terminate PIP function.

## Formatting of USB flash disk

Use any of USB connector on your IPBox for connection of USB disk.

Enter menu: Menu – Setup – System – Hard disk – Initialization.

Select corresponding USB disk in the list and press OK. A confirmation window appears.

Select “yes” to confirm your selection.

Warning: Be careful - all data stored on the disk will be erased during initialization (formatting)!

Disk will be formatted in linux ext3 system.

## Short (direct) selections:

BLUE button and then 1 = opens Sleep Timer

BLUE button and then 2 = opens Netcaster (internet radio plugin)

BLUE button and then 3 = opens Software management

## Media Player



The Media Player enables playback of media files stored on connected USB devices or devices connected through the network.

List of connected (available) media devices are displayed in this menu

Select desired device (memory) and press OK. Folder structure is displayed.

Select a folder to display its content – media files to be played.



Example:  
SAMSUNG HM250HI  
- folder “movie”



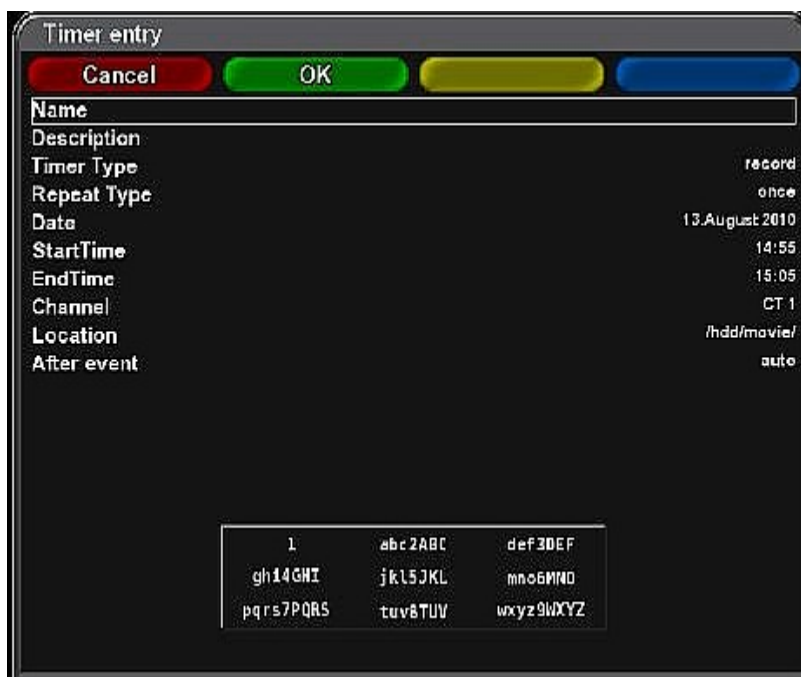


Select desired file from „movie“ folder and press OK to play selected media file.

Press STOP button to stop playback and return to the file list.

Press EXIT to leave the menu and return watching last watched channel.

## Timer



Enter Timer menu and press GREEN function button to open menu for setting up a new timer.

Use alphanumeric buttons to enter „Name“ of the timer.

Use Left/Right buttons to set up **Timer Type** (timer action: record or switch over).

Use Left/Right buttons to set up **Repeat Type**: once, daily, weekly or user defined.

Use alphanumeric buttons to set up **Date**, **Start Time** and **End Time** of the timer.

Set up **Channel**, **Location**, **After event** options and press GREEN function button to save the timer setting.

It is also possible to activate a timer directly from EPG (Electronic Program Guide) – see text below.

Timer entry

Cancel OK

Name

Description

Timer Type

Repeat Type

Repeats

Starting on

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

StartTime

EndTime

Channel

Location

After event

record

repeated

user defined

13.August 2010

no

no

no

no

yes

no

no

14:55

15:05

CT 1

/hdd/movie/

auto

## EPG (Electronic Program Guide)

Franklin, Franklinovy dobré skutky/Franklinova ponorka

Add timer Single EPG Multi EPG

Franklin, Franklinovy dobré skutky/Franklinova ponorka

40/52 Animovaný seriál o želví rodince a jejích kamarádech.

Press Yellow function button to display **EPG** of actually watched channel (if the channel provides EPG information).

Press BLUE function button to open Multi EPG, bouquet list is displayed. Select desired bouquet and press OK...

13.08, 15:05 20 min

CT 1

## Single EPG



Recording of a program through EPG of the channel:

Use cursor buttons to select a program you want to record.

Press GREEN button (Add Timer), „Input Timer“ window with information from EPG is displayed.

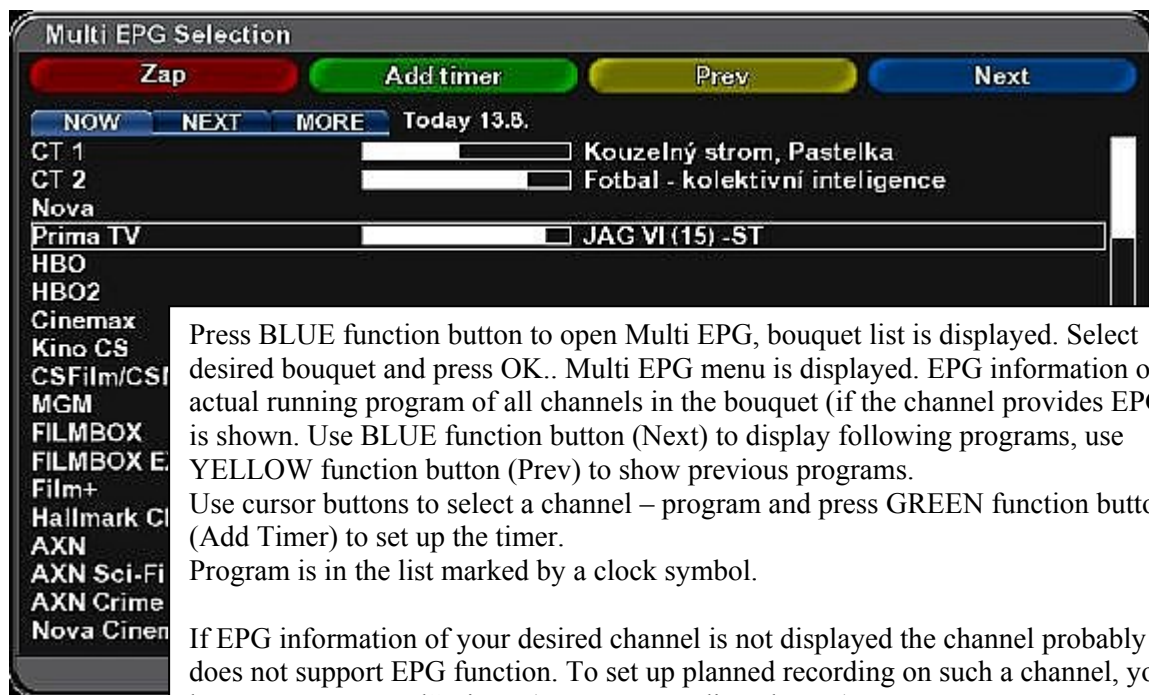
Use GREEN button to save the timer.

Use RED function button to cancel the timer.

Program that is set for timer recording is marked by clock symbol in the list.

Press GREEN button in EPG list to remove marked timer - confirmation is needed.

## Multi EPG menu



Press BLUE function button to open Multi EPG, bouquet list is displayed. Select desired bouquet and press OK.. Multi EPG menu is displayed. EPG information of actual running program of all channels in the bouquet (if the channel provides EPG) is shown. Use BLUE function button (Next) to display following programs, use YELLOW function button (Prev) to show previous programs.

Use cursor buttons to select a channel – program and press GREEN function button (Add Timer) to set up the timer.

Program is in the list marked by a clock symbol.

If EPG information of your desired channel is not displayed the channel probably does not support EPG function. To set up planned recording on such a channel, you have to use „manual“ Timer (see corresponding chapter).

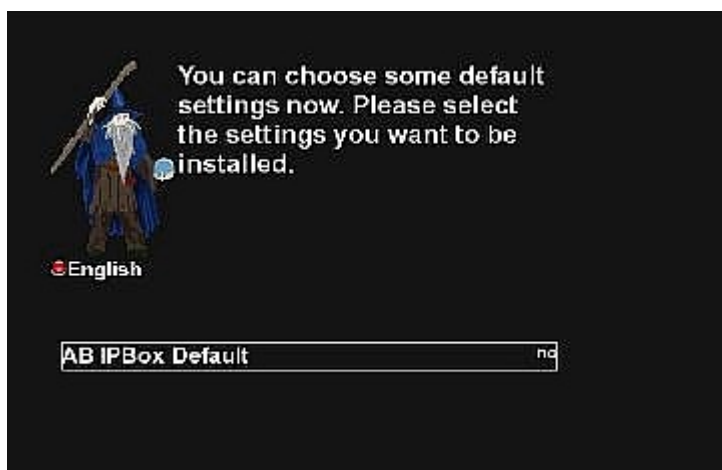
EPG infos are mostly displayed just for channels of actual TP/Provider. Please, wait for a while until all channel's EPG is displayed (if it is broadcasted).



In this menu you can see a list of all set timers showing its status.  
 Use RED function button (Delete) to remove selected timer.  
 Use YELLOW function button (Disable) to disable (deactivate) selected timer.  
 Press YELLOW button again to enable the timer.  
 Use GREEN function button (Add) to add a new timer.

### Default setting

(Menu – Setup – Default setting)

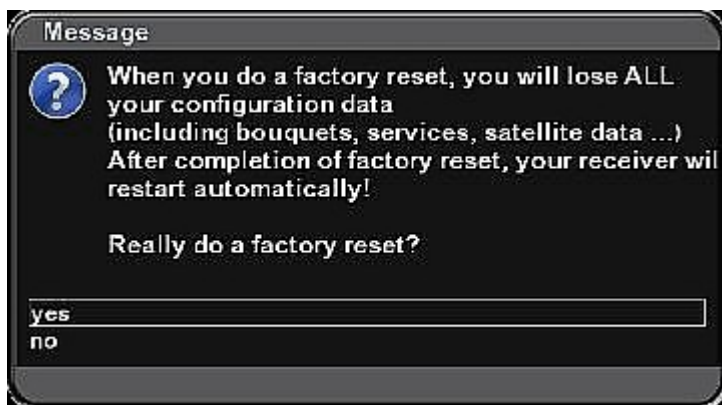


Choose whether you want to install selected „**Default setting**“ or not („yes“ – „no“) and press OK.  
 Installation of the default setting will start immediately.

**Actual installed setting in your IPbox will be erased and replaced by the default one.**

### Factory reset

(Menu – Setup – Factory reset)



Select whether to conduct **Factory reset** or not („yes“ – „no“) and press OK.

When selected „yes“ all your configuration data including bouquets, services, plugins etc. will be lost. All the configurations and installations will have to be done once again.

The IPBox will automatically restart the system after Factory reset.

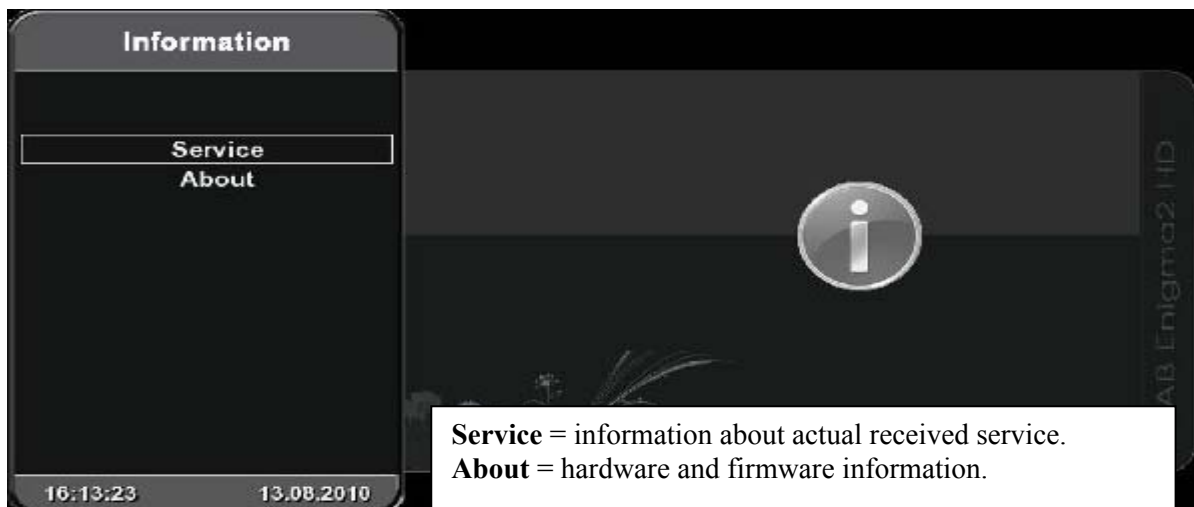
## VCR scart



VCR SCART connector provides video signal only when video resolution is set up on „576“ (PAL).

Use first right button at second button line of the remote controller to set up the video output. Press EXIT to exit.

## Information



**Service** = information about actual received service.  
**About** = hardware and firmware information.

## Service

(Menu – Information – Service)



Press RED function button to display information about actual running service (channel).

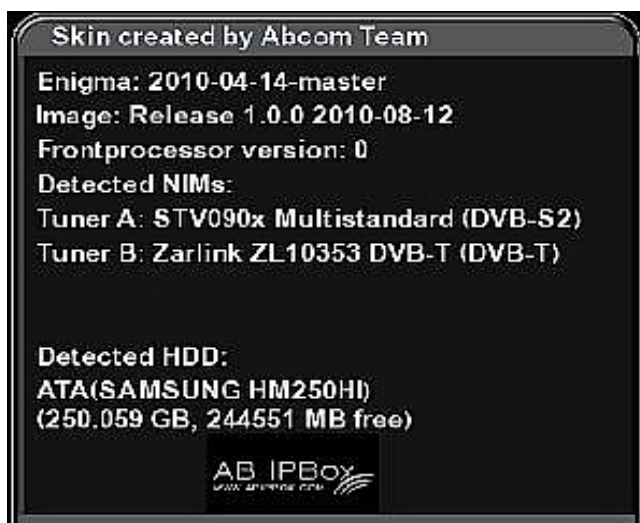
Press GREEN function button to display PID information.

Press YELLOW function button to display information about the transponder of actual service.

Press BLUE function button to display tuner status information.

## About

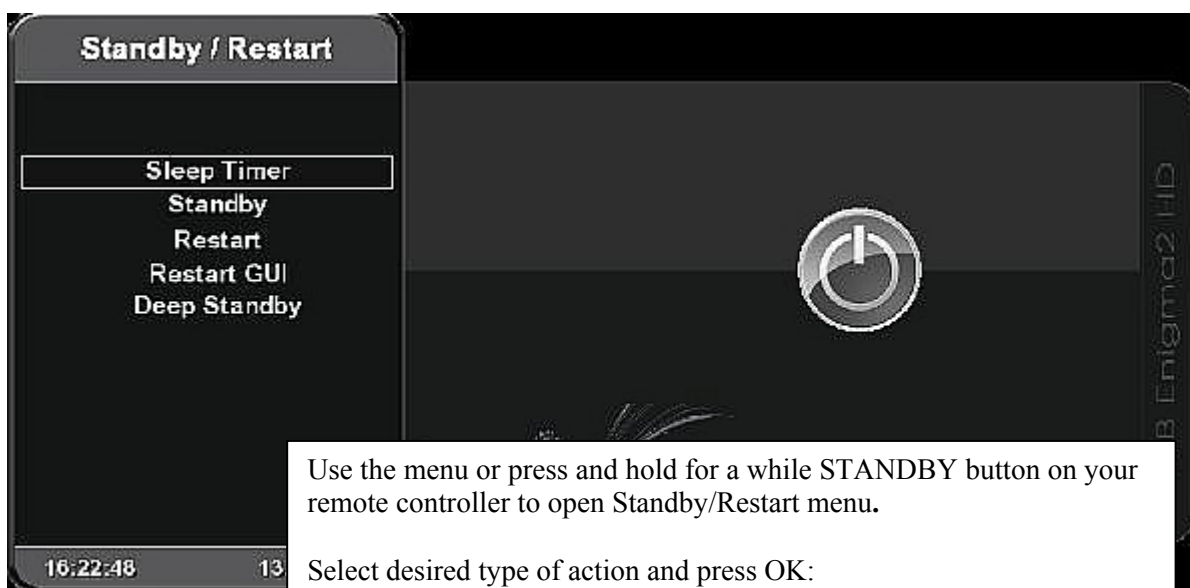
(Menu – Information – About)



At this window you will find information about:

- firmware used in your IPBox (Enigma, Image),
- used processor
- tuners installed in your IPBox
- hard disk (type, capacity and free space).

## Standby / Restart



Use the menu or press and hold for a while STANDBY button on your remote controller to open Standby/Restart menu.

Select desired type of action and press OK:

- **Sleep Timer** – opens Sleep Timer menu for setting up a time period. After elapsing the time, your receiver will be automatically shut down..
- **Standby** – select this option to turn off your receiver into Standby mode.
- **Restart** – select this option to restart the system of your Ipbox. After restart, the receiver will come back to the same mode as it was before the restart.
- **Restart GUI** – restarts only Enigma2 (Warm reboot.)
- **Deep Standby** – select this option to turn off your receiver into Deep Standby mode.



## Conclusion

AB IPBox team consecutively improves and develops firmware for AB IPBox receivers. We try to create new useful functions and expand capability of the IPBox receivers. Thanks to open architecture of used operating system Linux, also anonymous users can participate on the development.

Latest software and information can be found on our technical support web page (<http://download.abcom.sk/>) or on other independent servers and forums.

## Installation of a new firmware:

Enigma2 firmware for AB IPBox 99xx receivers contains following two files:

**usb\_rootfs.img**  
**usb\_kernel.img**

**There is a difference between firmware for AB IPBox 55HD, AB IPBox 99HD and 9900HD! They cannot be exchanged!**

**Make sure, that you are going to install a correct firmware into your IPBox.**

1. Copy both files (do not change the names) from your PC into main (root) folder of your USB flash disk (FAT32 or linux ext3. format).
2. Connect the USB disk with the files to USB connector on front or rear panel of your receiver.
3. Turn off the power by using power switch on the rear panel of the receiver.
4. Wait approximately 3 secs and turn on the power back. Watch the display. When message „loader...“ **appears on the display, immediately press and hold „Standby“** button on front panel. Hold until “USB UPGRADE” message is displayed. Release the button.
5. Installation process begins. Whole process lasts approximately 15 mins.  
**Do not turn off the receiver or disconnect the USB flash disk during installation!**  
**Wait until the end of all installation!**  
The end of the installation is indicated by „Update complete“ message on LCD display.
6. **The IPBox** will automatically restart newly installed image.
7. Wait until „Initial Setup Wizard“ menu is displayed. Follow the instructions at the beginning of this manual.

We wish you good luck and plenty of great experiences with your AB IPBox receiver.

Your ABCOM team.

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The manual describes actual specifications and features of the appliance.

Software and hardware used in the appliance is under permanent development.

Specifications and features are subject to change without notice.

Therefore the manufacturer or the seller is not responsible for potential inaccuracies or mistakes in this manual.

### **Warning:**

**AB COM s.r.o is not responsible for any damages or harms caused by installation and operation of illegal software or software not recommended by manufacturer.**

**Watching a Pay TV without paying corresponding abonent fees is illegal and will be punished according the laws.**



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